

Ventilation grilles and diffusers

TECHNICAL CATALOGUE



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Single deflection grille

SD

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Specifications

Grille with one row of horizontal blades, individually adjustable.
Used for exhaust, supply or recirculation, in ventilation systems.

Material

Aluminium.

Finish

Standard finish: white RAL9003.

Optional finishing:
- different RAL (extra cost)
- natural aluminium

Mounting / Fixing

Mounting on the wall or ceiling (inside).
Fixing with visible screws (countersunk hole in frame).

Different fixing systems are available under certain commercial conditions.
(see **Fixing systems for grilles / diffusers**)

Optional accessories

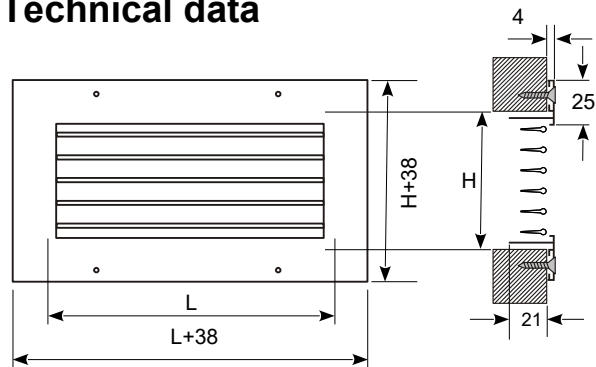
Opposed blade damper – **OBD** (extra cost).
Plenum box – **PL** (extra cost).
Fixing systems (extra cost).

Order code: **SD** **aaa x bbb** **+***

Product code
opening length L (mm)
opening height H (mm)
not specified - white RAL9003 (standard)
RALxxxx - optional RAL code
ALU - natural aluminium

* optional accessories

Technical data



LxH - opening hole size

Grille neck size: (L-10) x (H-10)

Standard sizes

L	H	Q (m³/h) @ Vef 2,5 (m/s)
200	100	150
300	100	220
400	100	280
500	100	360
600	100	440
400	200	580
500	200	750
600	200	900
800	200	1150
1000	200	1400
300	300	640
500	300	970
600	300	1300
800	300	1740
1000	300	2350
600	400	1740
1000	400	2900
595*	595*	2400

* external dimension 595x595, for cassette ceiling system
(without mounting holes in frame)

Custom sizes

Custom sizes available (under certain commercial conditions),
between: LxH 100x100 mm ~ LxH 2000x1000 mm

SD

Quick selection

Q (m³/h)	LxH (mm)	A _{ef} (m²)	200x100	250x100	300x100	200x150	400x100	250x150	300x150	500x100	600x100	400x150	500x150	400x200	600x150	300x300	500x200	800x150	600x200	1000x150	500x300	800x200	600x300	1000x200	800x300	600x400	1000x300	595x595*	1000x400
			0,016	0,020	0,024	0,032	0,036	0,040	0,048	0,060	0,064	0,072	0,080	0,096	0,120	0,128	0,144	0,160	0,192	0,240	0,320								
150	Lt(m)	2,6	2,3																										
	Lw(dB(A))	17	-																										
	ΔPt(Pa)	4	3																										
200	Lt(m)	3,4	2,9	2,8																									
	Lw(dB(A))	27	20	17																									
	ΔPt(Pa)	7	5	3																									
250	Lt(m)	4,3	3,7	3,5																									
	Lw(dB(A))	33	25	20																									
	ΔPt(Pa)	10	6	5																									
300	Lt(m)	5,2	4,6	4,2	3,7	3,4	3,2																						
	Lw(dB(A))	40	27	25	17	-	-																						
	ΔPt(Pa)	16	9	6	4	3	3																						
350	Lt(m)			4,9	4,3	3,9	3,7																						
	Lw(dB(A))			30	21	18	14																						
	ΔPt(Pa)			8	5	4	4																						
400	Lt(m)				4,9	4,5	4,2	3,8																					
	Lw(dB(A))				28	23	21	-																					
	ΔPt(Pa)				7	6	5	3																					
450	Lt(m)				5,6	5,1	4,7	4,3																					
	Lw(dB(A))				31	26	24	16																					
	ΔPt(Pa)				10	7	6	4																					
500	Lt(m)				6,2	5,7	5,3	4,9	4,4	4,2																			
	Lw(dB(A))				35	30	27	21	15	-																			
	ΔPt(Pa)				12	9	7	5	4	3																			
600	Lt(m)								5,9	5,2	5	4,8	4,5																
	Lw(dB(A))								25	21	20	-	-																
	ΔPt(Pa)								6	5	5	4	3																
700	Lt(m)								7	6,2	5,9	5,6	5,4																
	Lw(dB(A))								32	24	23	20	18																
	ΔPt(Pa)								9	6	6	5	4																
800	Lt(m)								7,9	7,1	6,8	6,4	6,1	5,6	5,1														
	Lw(dB(A))								35	27	27	23	20	-	-														
	ΔPt(Pa)								12	7	7	5	5	3	3														
900	Lt(m)								8	7,6	7,3	7	6,3	5,7	5,5														
	Lw(dB(A))								32	30	26	22	17	16	-														
	ΔPt(Pa)								9	8	7	6	4	3															
1000	Lt(m)									8,4	8	7,7	7,2	6,4	6,1														
	Lw(dB(A))									35	33	27	21	20	18														
	ΔPt(Pa)									12	9	7	5	5	4														
1200	Lt(m)													9	8,2	7,4	7,2	6,7	6,4										
	Lw(dB(A))													32	25	22	20	-	-										
	ΔPt(Pa)													9	6	6	5	3	3										
1400	Lt(m)																	9,8	8,7	8,4	7,8	7,5	6,8						
	Lw(dB(A))																	30	27	22	18	18	-						
	ΔPt(Pa)																	8	7	6	4	4	2						
1600	Lt(m)																	12	10,7	10	9,3	8,8	7,9	7,2					
	Lw(dB(A))																	34	32	27	22	21	17	-					
	ΔPt(Pa)																	11	9	7	5	5	3	2					
1800	Lt(m)																	13,5	12,1	11,6	10,7	10	9	7,8					
	Lw(dB(A))																	42	38	33	29	27	20	16					
	ΔPt(Pa)																	17	14	11	8	7	4	3					
2000	Lt(m)																			13,5	12,9	12,3	11,5	10,3	8,9	7,8			
	Lw(dB(A))																			41	37	32	31	21	17	-			
	ΔPt(Pa)																			16	13	9	8	5	4	2			
2500	Lt(m)																												
	Lw(dB(A))																												
	ΔPt(Pa)																												
3000	Lt(m)																												
	Lw(dB(A))																												
	ΔPt(Pa)																												
3500	Lt(m)																												
	Lw(dB(A))																												
	ΔPt(Pa)																												
4000	Lt(m)																												
	Lw(dB(A))																												
	ΔPt(Pa)																												

*external dimension 595x595, for cassette ceiling system

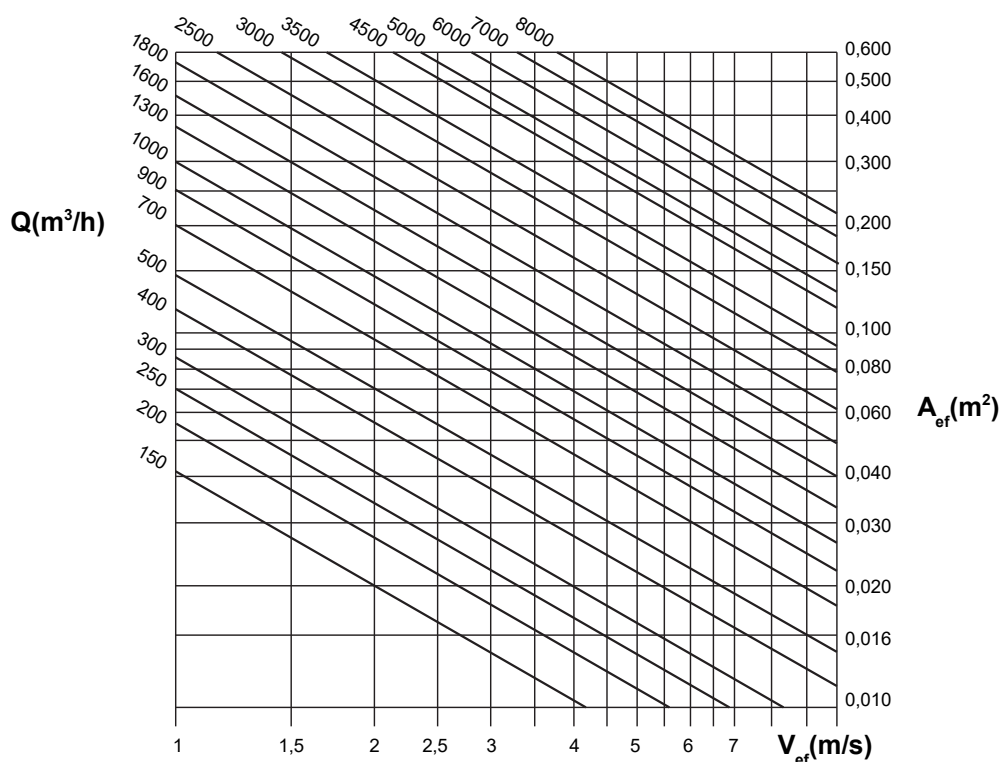
Data is valid for:

- H ceiling = 2,5±0,5m
- L_t (m) @ V_t=0,2 m/s (without Coanda effect)
- L_w(dB(A)) incl. room attenuation 5dB(A)
- Temperature difference Δt=-10K
- deflection 0°, without damper

SD

Technical data

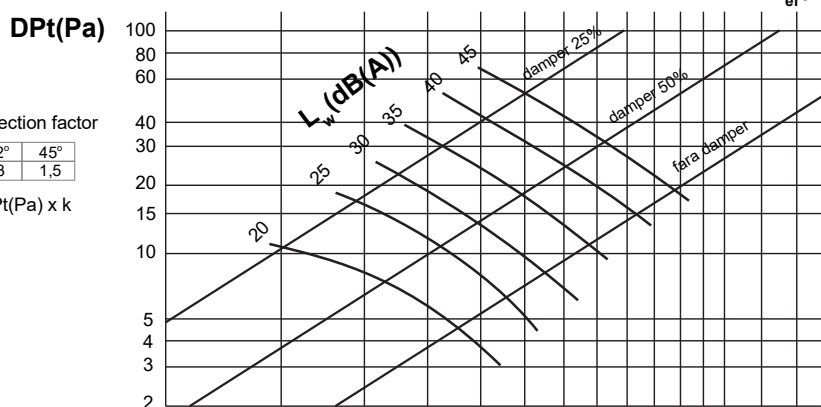
		$A_{ef} (m^2)$																
H (mm)	1000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0,800
	900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0,648	0,720
	800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0,512	0,576	0,640
	700	-	-	-	-	-	-	-	-	-	-	-	-	0,392	0,448	0,504	0,560	
	600	-	-	-	-	-	-	-	-	-	-	-	0,288	0,336	0,384	0,432	0,480	
	550	-	-	-	-	-	-	-	-	-	0,242	0,264	0,308	0,352	0,396	0,440		
	500	-	-	-	-	-	-	-	-	0,200	0,220	0,240	0,280	0,320	0,360	0,400		
	450	-	-	-	-	-	-	0,162	0,180	0,198	0,216	0,252	0,288	0,324	0,360			
	400	-	-	-	-	-	0,128	0,144	0,160	0,176	0,192	0,224	0,256	0,288	0,320			
	350	-	-	-	-	0,098	0,112	0,126	0,140	0,154	0,168	0,196	0,224	0,252	0,280			
	300	-	-	-	0,072	0,084	0,096	0,108	0,120	0,132	0,144	0,168	0,192	0,216	0,240			
	250	-	-	0,050	0,060	0,070	0,080	0,090	0,100	0,110	0,120	0,140	0,160	0,180	0,200			
	200	-	0,032	0,040	0,048	0,056	0,064	0,072	0,080	0,088	0,096	0,112	0,128	0,144	0,160			
	150	-	0,018	0,024	0,030	0,036	0,042	0,048	0,054	0,060	0,066	0,072	0,084	0,096	0,108	0,120		
	100	0,008	0,012	0,016	0,020	0,024	0,028	0,032	0,036	0,040	0,044	0,048	0,056	0,064	0,072	0,080		
		100	150	200	250	300	350	400	450	500	550	600	700	800	900	1000		
		L (mm)																



Deflection correction factor

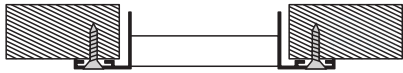
deflection	22°	45°
k	1,3	1,5

$$DPt_{tot} (Pa) = DPt(Pa) \times k$$



SD

Fixing



Fixing with visible screws (**standard**).
Screws are supplied at the same color as grille.

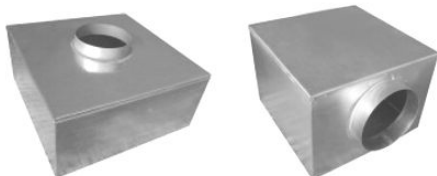
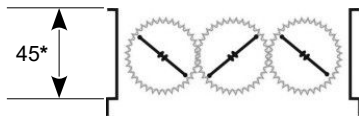
Different fixing systems are available (under certain commercial conditions).
(details in **Fixing systems for grilles / diffusers** chapter)

Optional accessories



OBD - Opposed blade damper. (extra cost)

*to be added to grille depth dimension



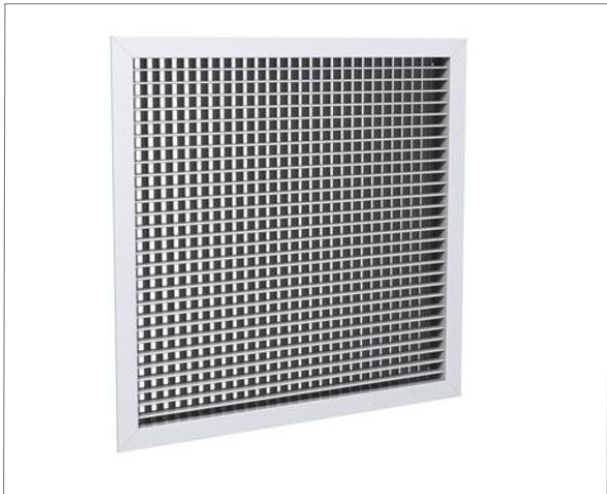
PL – Plenum box(extra cost)

Variants:
- uninsulated / thermal insulated
- axial or lateral spigot

Double deflection grille

DD

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Detalii constructive. Utilizare.

Grille with two rows of blades, horizontal and vertical, individually adjustable.

Used mainly for supply, in ventilation systems.

Material

Aluminium.

Finish

Standard finish: white RAL9003.

Optional finishing:
- different RAL (extra cost)
- natural aluminium

Mounting / Fixing

Mounting on the wall or ceiling (inside).
Fixing with visible screws (countersunk hole in frame).

Different fixing systems are available under certain commercial conditions.
(see **Fixing systems for grilles / diffusers**)

Optional accessories

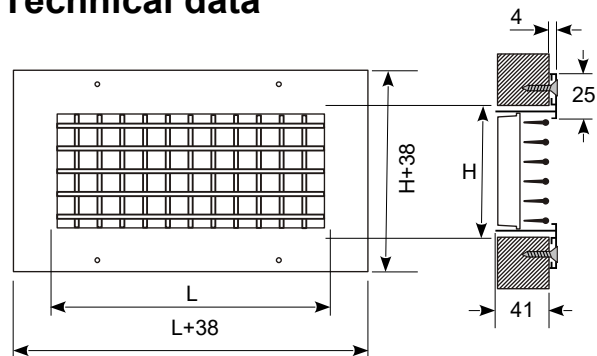
Opposed blade damper – **OBD** (extra cost).
Plenum box – **PL** (extra cost).
Fixing systems (extra cost).

Order code: **DD** **aaa x bbb** **+***

Product code
opening length L (mm)
opening height H (mm)
not specified - white RAL9003 (standard)
RALxxxx - optional RAL code
ALU - natural aluminium

* optional accessories

Technical data



LxH - opening hole size

Grille neck size: (L-10) x (H-10)

Standard sizes

L	H	Q (m³/h) @ Vef 2,5 (m/s)
200	100	100
300	100	160
400	100	220
500	100	270
600	100	320
400	200	430
500	200	540
600	200	650
800	200	860
1000	200	1100
300	300	490
500	300	810
600	300	970
800	300	1300
1000	300	1620
600	400	1360
1000	400	2160
595*	595*	1620

* external dimension 595x595, for cassette ceiling system
(without mounting holes in frame)

Custom sizes

Custom sizes available (under certain commercial conditions),
between: LxH 100x100 mm ~ LxH 2000x1000 mm

DD

Quick selection

Q (m³/h)	LxH (mm)	200x100	250x100	300x100	200x150	400x100	250x150	300x150	500x100	600x100	400x150	500x150	400x200	600x150	300x300	500x200	800x150	600x200	1000x150	500x300	800x200	600x300	1000x200	800x300	600x400	1000x300	595x595*	1000x400
	A _{ef} (m²)	0,016	0,020	0,024	0,032	0,036	0,040	0,048	0,060	0,064	0,072	0,080	0,096	0,120	0,128	0,144	0,160	0,192	0,240	0,320								
150	L _t (m)	2,8	2,6	2,4																								
	L _w (dB(A))	27	20	18																								
	ΔP _t (Pa)	7	5	3																								
200	L _t (m)	3,9	3,5	3,2																								
	L _w (dB(A))	37	30	22																								
	ΔP _t (Pa)	12	8	6																								
250	L _t (m)	5	4,4	3,9	3,5	3,3	3,1																					
	L _w (dB(A))	43	37	32	22	20	17																					
	ΔP _t (Pa)	18	12	9	5	4	3																					
300	L _t (m)			4,8	4,2	3,8	3,6																					
	L _w (dB(A))			37	27	24	21																					
	ΔP _t (Pa)			12	7	6	5																					
350	L _t (m)				4,9	4,6	4,4																					
	L _w (dB(A))				32	27	25																					
	ΔP _t (Pa)				9	7	6																					
400	L _t (m)				5,6	5,3	5	4,5																				
	L _w (dB(A))				38	36	31	24																				
	ΔP _t (Pa)				14	12	8	6																				
450	L _t (m)				6,3	5,8	5,6	5,1																				
	L _w (dB(A))				43	37	33	27																				
	ΔP _t (Pa)				18	13	10	7																				
500	L _t (m)							5,7	5,1	4,8																		
	L _w (dB(A))							32	23	22																		
	ΔP _t (Pa)							9	5	5																		
600	L _t (m)							6,8	6	5,8	5,6	5,3																
	L _w (dB(A))							37	27	26	22	20																
	ΔP _t (Pa)							12	7	6	5	4																
700	L _t (m)							7,9	7,3	7	6,5	6,2																
	L _w (dB(A))							42	33	32	27	24																
	ΔP _t (Pa)							17	10	9	7	6																
800	L _t (m)							8,2	7,7	7,4	7,2	6,5	5,7	5,6														
	L _w (dB(A))							37	35	32	27	23	18	15														
	ΔP _t (Pa)							13	12	9	7	6	4	3														
900	L _t (m)							8,8	8,3	7,9	7,3	6,5	6,3															
	L _w (dB(A))							38	34	32	27	21	18															
	ΔP _t (Pa)							14	11	9	7	5	4															
1000	L _t (m)											9	8	7,3	7,1	6,7	6,4											
	L _w (dB(A))											37	32	25	22	21	18											
	ΔP _t (Pa)											13	9	6	5	5	4											
1200	L _t (m)												9,6	8,4	8,2	7,8	7,5	6,7										
	L _w (dB(A))												37	30	27	23	21	18										
	ΔP _t (Pa)												13	8	7	6	5	4										
1400	L _t (m)												11,7	10,2	9,7	9,1	8,7	7,8	7,1									
	L _w (dB(A))												42	33	31	27	25	22	15									
	ΔP _t (Pa)												16	10	8	7	6	5	3									
1600	L _t (m)												13,8	12,3	12	11,3	10,6	9,3	8,3									
	L _w (dB(A))												45	38	36	32	31	27	18									
	ΔP _t (Pa)												20	14	12	9	8	7	4									
1800	L _t (m)													13,8	13,4	12,7	12,1	10,7	9,4	7,9								
	L _w (dB(A))													45	42	37	35	32	23	17								
	ΔP _t (Pa)													18	17	13	12	9	6	3								
2000	L _t (m)																		12,3	10,6	8,8							
	L _w (dB(A))																		37	25	18							
	ΔP _t (Pa)																		13	7	4							
2500	L _t (m)																			13,5	11,6							
	L _w (dB(A))																			32	22							
	ΔP _t (Pa)																			9	5							
3000	L _t (m)																			15,8	14							
	L _w (dB(A))																			42	27							
	ΔP _t (Pa)																			17	7							
3500	L _t (m)																				15,8							
	L _w (dB(A))																				32							
	ΔP _t (Pa)																				9							

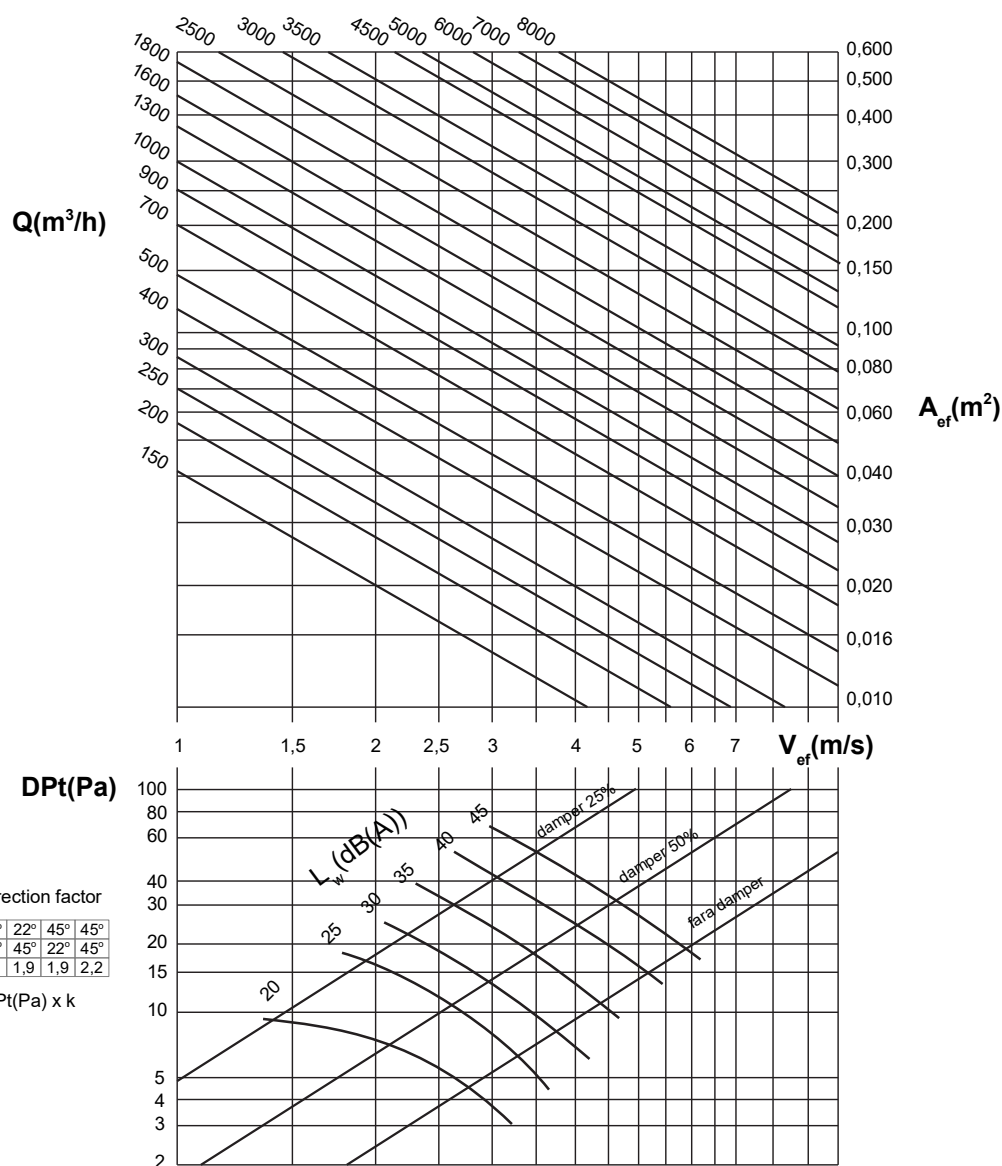
*external dimension 595x595, for cassette ceiling system

Data is valid for:

- H ceiling = 2,5±0,5m
- L_t (m) @ V_t=0,2 m/s (without Coanda effect)
- L_w(dB(A)) incl. room attenuation 5dB(A)
- Temperature difference Δt=10K
- deflection 0°, without damper

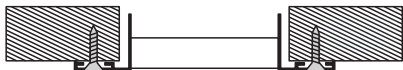
DD**Technical data**

Technical data				A _{ef} (m ²)													
H (mm)	600	-	-	-	-	-	-	-	-	-	-	0,216	0,252	0,288	0,324	0,360	
	550	-	-	-	-	-	-	-	-	-	0,182	0,198	0,231	0,264	0,297	0,330	
	500	-	-	-	-	-	-	-	-	0,150	0,165	0,180	0,210	0,240	0,270	0,300	
	450	-	-	-	-	-	-	-	0,122	0,135	0,149	0,162	0,189	0,216	0,243	0,270	
	400	-	-	-	-	-	-	0,096	0,108	0,120	0,132	0,144	0,168	0,192	0,216	0,240	
	350	-	-	-	-	-	0,074	0,084	0,095	0,105	0,116	0,126	0,147	0,168	0,189	0,210	
	300	-	-	-	-	0,054	0,063	0,072	0,081	0,090	0,099	0,108	0,126	0,144	0,162	0,180	
	250	-	-	-	0,038	0,045	0,053	0,060	0,068	0,075	0,083	0,090	0,105	0,120	0,135	0,150	
	200	-	-	0,024	0,030	0,036	0,042	0,048	0,054	0,060	0,066	0,072	0,084	0,096	0,108	0,120	
	150	-	0,014	0,018	0,023	0,027	0,032	0,036	0,041	0,045	0,050	0,054	0,063	0,072	0,081	0,090	
100	0,006	0,009	0,012	0,015	0,018	0,021	0,024	0,027	0,030	0,033	0,036	0,042	0,048	0,054	0,060		
		100	150	200	250	300	350	400	450	500	550	600	700	800	900	1000	
		L (mm)															



DD

Fixing



Fixing with visible screws (**standard**).
Screws are supplied at the same color as grille.

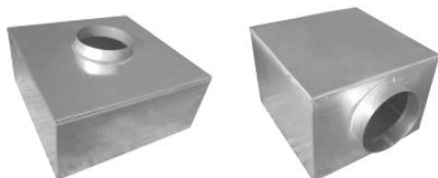
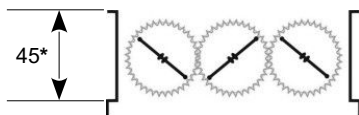
Different fixing systems are available (under certain commercial conditions).
(details in **Fixing systems for grilles / diffusers** chapter)

Optional accessories



OBD - Opposed blade damper. (extra cost)

*to be added to grille depth dimension



PL – Plenum box(extra cost)

Variants:

- uninsulated / thermal insulated
- axial or lateral spigot

Fixed curved blade grille

SC

[Back to Content](#)



Detalii constructive. Utilizare.

Grille with single row of fixed, curved blades, inclined at 45°.

Used for exhaust or recirculation, in ventilation systems.

Material

Aluminium.

Finish

Standard finish: white RAL9003.

Optional finishing:
- different RAL (extra cost)
- natural aluminium

Mounting / Fixing

Mounting on the wall or ceiling (inside).
Fixing with visible screws (countersunk hole in frame).

Different fixing systems are available under certain commercial conditions.
(see **Fixing systems for grilles / diffusers**)

Optional accessories

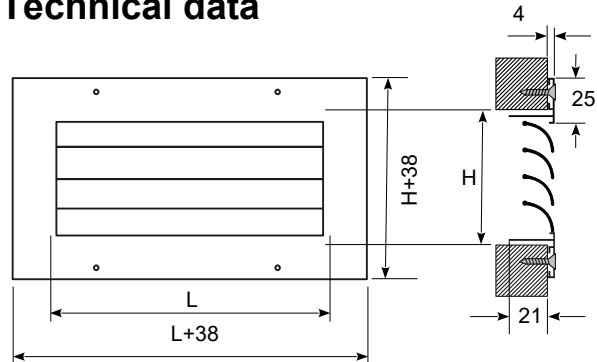
Opposed blade damper – **OBD** (extra cost).
Plenum box – **PL** (extra cost).
Fixing systems (extra cost).

Order code: **SC** **aaa x bbb** **+***

Product code
opening length L (mm)
opening height H (mm)
not specified - white RAL9003 (standard)
RALxxxx - optional RAL code
ALU - natural aluminium

* optional accessories

Technical data



LxH - opening hole size

Grille neck size: (L-10) x (H-10)

Standard sizes

L	H	Q (m³/h) @ Vef 2,5 (m/s)
200	100	90
300	100	140
400	100	180
500	100	225
600	100	275
400	200	430
500	200	540
600	200	640
800	200	850
1000	200	1150
300	300	500
500	300	850
600	300	1000
800	300	1370
1000	300	1720
600	400	1380
1000	400	2300
595*	595*	1710

* external dimension 595x595, for cassette ceiling system
(without mounting holes in frame)

Custom sizes

Custom sizes available (under certain commercial conditions),
between: LxH 100x100 mm ~ LxH 2000x1000 mm

SC

Quick selection

Q (m³/h)	LxH (mm)	200x100	250x100	150x150	300x100	200x150	400x100	250x150	300x150	200x200	250x200	400x150	300x200	250x250	500x150	600x150	400x200	500x200	300x300	600x200	400x300	350x350	500x300	400x400	600x300	600x400	595x595*	800x400	1000x400
	A _{ef} (m²)	0,010	0,013	0,016	0,020	0,025	0,030	0,035	0,043	0,050	0,058	0,070	0,075	0,094	0,102	0,112	0,153	0,190	0,204	0,255									
50	Lw(dB(A)) ΔPt(Pa)	- 2																											
100	Lw(dB(A)) ΔPt(Pa)	20 9	17 7	- 4																									
150	Lw(dB(A)) ΔPt(Pa)	28 18	23 12	18 8	16 4																								
200	Lw(dB(A)) ΔPt(Pa)		30 20	24 13	18 8	16 6																							
250	Lw(dB(A)) ΔPt(Pa)			30 20	23 12	18 8	16 6																						
300	Lw(dB(A)) ΔPt(Pa)				28 17	23 12	18 8	16 7																					
350	Lw(dB(A)) ΔPt(Pa)					26 15	21 11	17 9	14 6	- 4																			
400	Lw(dB(A)) ΔPt(Pa)						25 14	23 12	18 7	17 6																			
500	Lw(dB(A)) ΔPt(Pa)						31 20	28 17	23 11	19 8	14 5	- 5																	
600	Lw(dB(A)) ΔPt(Pa)							31 20	26 15	22 11	18 8	14 7	13 6																
800	Lw(dB(A)) ΔPt(Pa)								32 23	28 17	24 13	21 10	18 9	14 6	14 5	13 4													
1000	Lw(dB(A)) ΔPt(Pa)									32 23	28 17	26 15	21 10	18 8	17 4	- 4													
1300	Lw(dB(A)) ΔPt(Pa)											33 26	32 22	25 14	23 12	22 11	15 7	- 4											
1600	Lw(dB(A)) ΔPt(Pa)												37 33	30 20	28 18	27 16	19 9	14 6	13 5										
1800	Lw(dB(A)) ΔPt(Pa)													35 29	33 27	31 22	24 13	19 8	17 7	14 5									
2000	Lw(dB(A)) ΔPt(Pa)																	26 15	21 10	19 8	17 7	14 5							
2500	Lw(dB(A)) ΔPt(Pa)																		29 18	24 13	22 12	18 8							
3000	Lw(dB(A)) ΔPt(Pa)																			29 19	28 17	23 12							
3500	Lw(dB(A)) ΔPt(Pa)																					33 24	27 16						
4000	Lw(dB(A)) ΔPt(Pa)																						30 21						

*external dimension 595x595, for cassette ceiling system

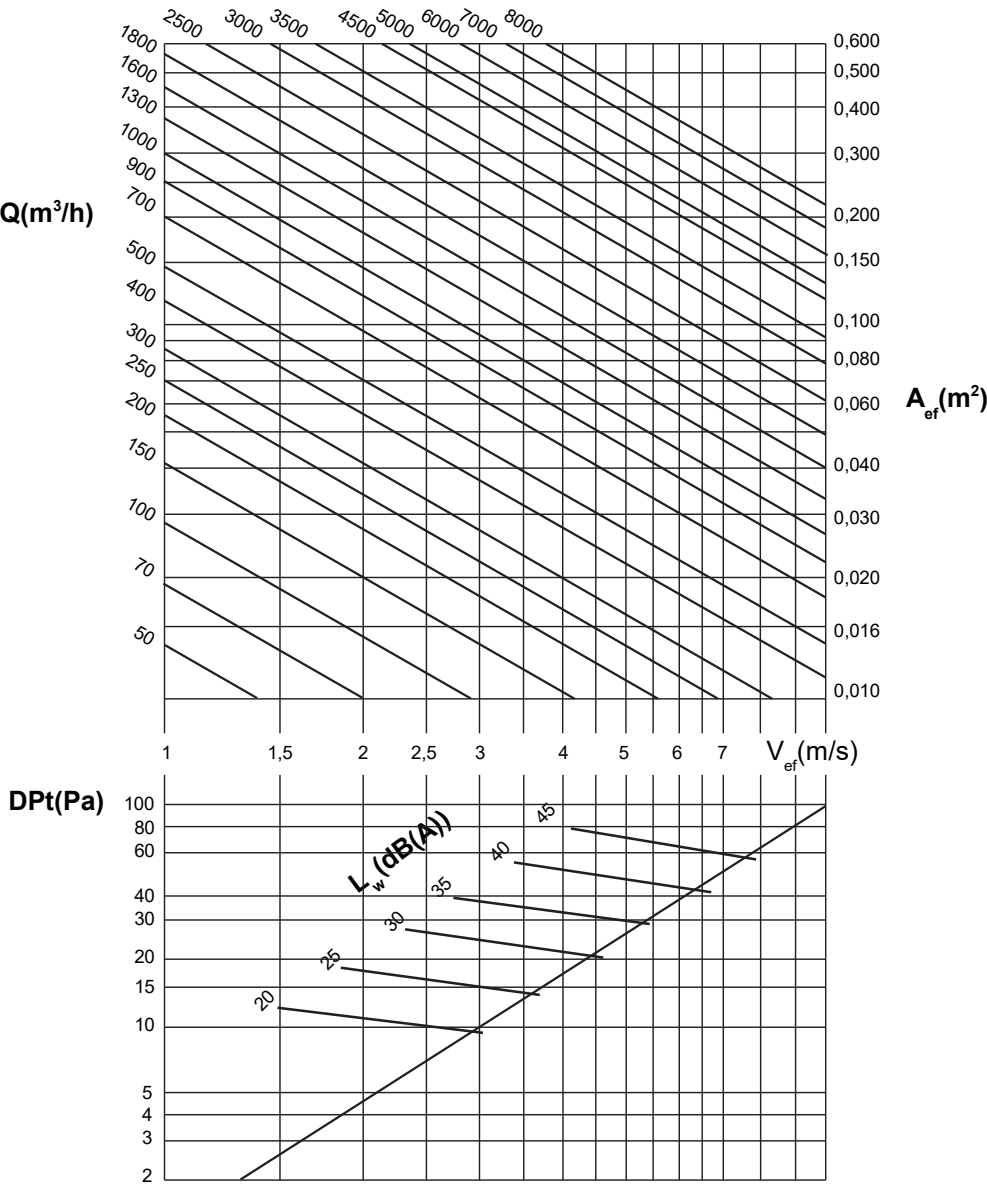
Data is valid for:

• Lw(db(A)) incl. room attenuation 5dB(A)

SC

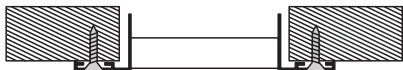
Technical data

		A _{ef} (m ²)															
H (mm)	800	-	-	-	-	-	-	-	-	-	-	-	-	0,422	0,474	0,527	0,632
	700	-	-	-	-	-	-	-	-	-	-	-	0,321	0,367	0,413	0,459	0,551
	600	-	-	-	-	-	-	-	-	-	0,235	0,274	0,313	0,352	0,391	0,469	
	500	-	-	-	-	-	-	-	-	0,162	0,194	0,226	0,258	0,291	0,323	0,388	
	450	-	-	-	-	-	-	-	0,130	0,145	0,173	0,202	0,231	0,260	0,289	0,347	
	400	-	-	-	-	-	-	0,102	0,115	0,128	0,153	0,179	0,204	0,230	0,255	0,306	
	350	-	-	-	-	-	0,077	0,088	0,099	0,111	0,133	0,155	0,177	0,199	0,221	0,265	
	300	-	-	-	-	0,056	0,065	0,075	0,084	0,094	0,112	0,131	0,150	0,168	0,187	0,224	
	250	-	-	-	0,038	0,046	0,054	0,061	0,069	0,077	0,092	0,107	0,122	0,138	0,153	0,184	
	200	-	-	0,024	0,030	0,036	0,042	0,048	0,054	0,060	0,071	0,083	0,095	0,107	0,119	0,143	
	150	-	0,013	0,017	0,021	0,026	0,030	0,034	0,038	0,043	0,051	0,060	0,068	0,077	0,085	0,102	
	100	0,005	0,008	0,010	0,013	0,015	0,018	0,020	0,023	0,026	0,031	0,036	0,041	0,046	0,051	0,061	
		100	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200	
		L (mm)															



SC

Fixing



Fixing with visible screws (**standard**).
Screws are supplied at the same color as grille.

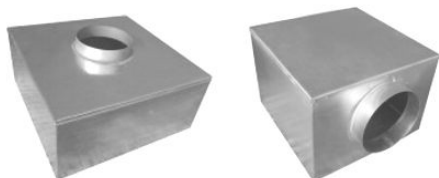
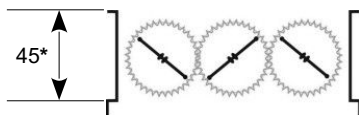
Different fixing systems are available (under certain commercial conditions).
(details in **Fixing systems for grilles / diffusers** chapter)

Optional accessories



OBD - Opposed blade damper. (extra cost)

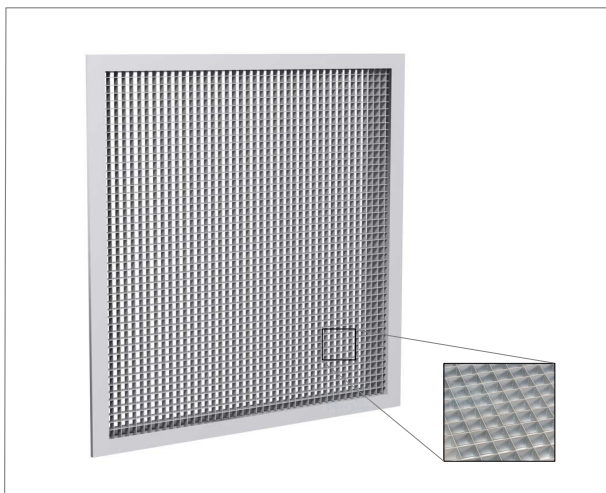
*to be added to grille depth dimension



PL – Plenum box(extra cost)

Variants:
- uninsulated / thermal insulated
- axial or lateral spigot

EGC-0



Specifications

Egg crate grille with 0° core.

Used for exhaust, supply or recirculation, in ventilation systems.
Effective area 90%, square grid 12,5x12,5 mm spacing.

Material

Aluminium.

Finish

Standard finish: white RAL9003.

Optional finishing:

- different RAL (extra cost)
- natural aluminium

Mounting / Fixing

Mounting on the wall or ceiling (inside).

Fixing with visible screws (countersunk hole in frame).

Different fixing systems are available under certain commercial conditions.
(see **Fixing systems for grilles / diffusers**)

Optional accessories

Opposed blade damper – **OBD** (extra cost).

Plenum box – **PL** (extra cost).

Fixing systems (extra cost).

Order code: EGC-0 aaa x bbb +*

Product code

opening length L (mm)

opening height H (mm)

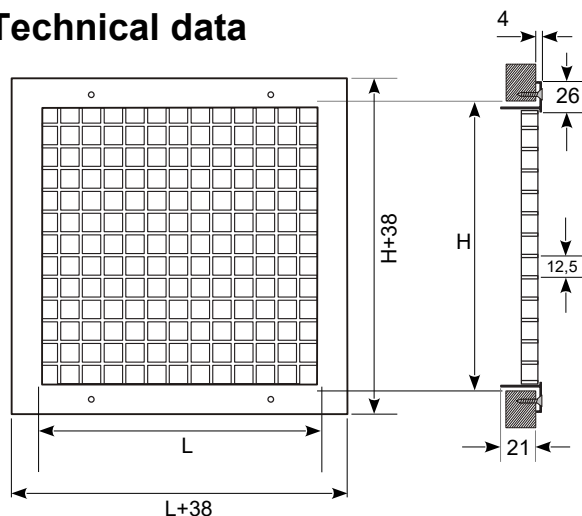
not specified - white RAL9003 (standard)

RALxxxx - optional RAL code

ALU - natural aluminium

* optional accessories

Technical data



LxH - opening hole size

Grille neck size: (L-10) x (H-10)

Standard sizes

L	H	Q (m³/h) @ Vef 2,5 (m/s)
200	200	310
250	250	480
300	300	690
350	350	940
400	400	1220
450	450	1550
500	500	1920
600	600	2750
595*	595*	2290

* external dimension 595x595, for cassette ceiling system
(without mounting holes in frame)

Custom sizes

Custom sizes available (under certain commercial conditions),
between: LxH 100x100 mm ~ LxH 1200x600 mm

EGC-0

Quick selection

Q (m³/h)	LxH (mm)	A _{er} (m²)	200x200	250x250	300x300	350x350	400x400	450x450	500x500	595x595*	600x600
			0,034	0,053	0,077	0,104	0,136	0,172	0,213	0,255	0,306
300	Lw(dB(A))	-	-	-	-	-	-	-	-	-	-
	ΔPt(Pa)	4	4	-	-	-	-	-	-	-	-
400	Lw(dB(A))	21	21	-	-	-	-	-	-	-	-
	ΔPt(Pa)	7	7	3	-	-	-	-	-	-	-
600	Lw(dB(A))	29	29	18	-	-	-	-	-	-	-
	ΔPt(Pa)	14	14	6	3	-	-	-	-	-	-
800	Lw(dB(A))	39	39	27	17	-	-	-	-	-	-
	ΔPt(Pa)	23	23	11	5	-	-	-	-	-	-
1000	Lw(dB(A))	-	-	36	24	18	-	-	-	-	-
	ΔPt(Pa)	-	-	18	9	6	-	-	-	-	-
1200	Lw(dB(A))	-	-	-	28	21	16	-	-	-	-
	ΔPt(Pa)	-	-	-	13	7	4	-	-	-	-
1500	Lw(dB(A))	-	-	-	35	26	18	-	-	-	-
	ΔPt(Pa)	-	-	-	18	10	6	4	-	-	-
1800	Lw(dB(A))	-	-	-	-	35	23	21	-	-	-
	ΔPt(Pa)	-	-	-	-	17	8	7	-	-	-
2000	Lw(dB(A))	-	-	-	-	37	28	23	17	-	-
	ΔPt(Pa)	-	-	-	-	20	13	8	5	-	-
2500	Lw(dB(A))	-	-	-	-	-	33	26	20	16	-
	ΔPt(Pa)	-	-	-	-	-	17	11	7	5	3
3000	Lw(dB(A))	-	-	-	-	-	-	33	25	22	17
	ΔPt(Pa)	-	-	-	-	-	-	16	10	7	5
3500	Lw(dB(A))	-	-	-	-	-	-	-	29	26	20
	ΔPt(Pa)	-	-	-	-	-	-	-	14	10	7
4000	Lw(dB(A))	-	-	-	-	-	-	-	34	29	23
	ΔPt(Pa)	-	-	-	-	-	-	-	17	14	8
4500	Lw(dB(A))	-	-	-	-	-	-	-	-	33	26
	ΔPt(Pa)	-	-	-	-	-	-	-	-	17	11
5000	Lw(dB(A))	-	-	-	-	-	-	-	-	36	28
	ΔPt(Pa)	-	-	-	-	-	-	-	-	19	13

*external dimension 595x595, for cassette ceiling system

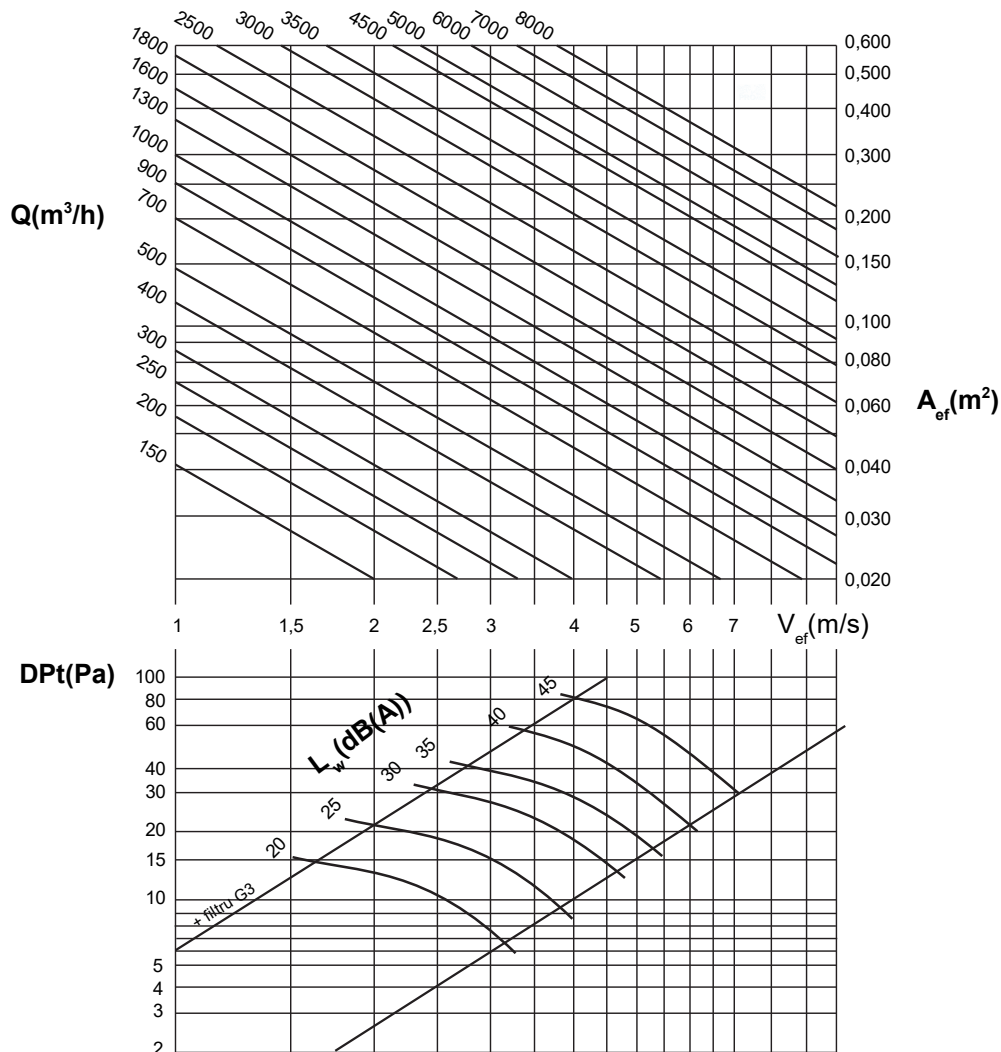
Data is valid for:

- Lw(db(A)) incl. room attenuation 5dB(A)

EGC-0

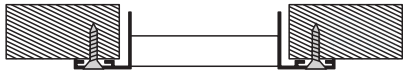
Technical data

H (mm)	A _{ef} (m ²)															
	600	550	500	450	400	350	300	250	200	150	100	100	150	200	250	300
600	-	-	-	-	-	-	-	-	-	-	-	0,306	0,357	0,408	0,459	0,510
550	-	-	-	-	-	-	-	-	-	-	0,257	0,281	0,327	0,374	0,421	0,468
500	-	-	-	-	-	-	-	-	-	0,213	0,234	0,255	0,298	0,340	0,383	0,425
450	-	-	-	-	-	-	-	0,172	0,191	0,210	0,223	0,268	0,306	0,344	0,383	
400	-	-	-	-	-	-	0,136	0,153	0,170	0,187	0,204	0,238	0,272	0,306	0,340	
350	-	-	-	-	-	0,104	0,119	0,134	0,149	0,164	0,179	0,208	0,238	0,268	0,298	
300	-	-	-	-	0,077	0,089	0,102	0,115	0,128	0,140	0,153	0,179	0,204	0,230	0,255	
250	-	-	-	0,053	0,064	0,074	0,085	0,096	0,106	0,117	0,128	0,149	0,170	0,191	0,213	
200	-	-	0,034	0,043	0,051	0,059	0,068	0,077	0,085	0,094	0,102	0,119	0,136	0,153	0,170	
150	-	0,019	0,026	0,032	0,038	0,045	0,051	0,057	0,064	0,070	0,077	0,089	0,102	0,115	0,128	
100	0,009	0,013	0,017	0,021	0,026	0,030	0,034	0,038	0,043	0,047	0,051	0,059	0,068	0,077	0,085	
	100	150	200	250	300	350	400	450	500	550	600	700	800	900	1000	
L (mm)																



EGC-0

Fixing



Fixing with visible screws (**standard**).
Screws are supplied at the same color as grille.

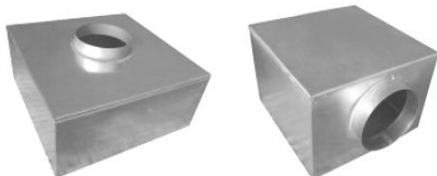
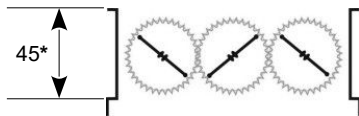
Different fixing systems are available (under certain commercial conditions).
(details in **Fixing systems for grilles / diffusers** chapter)

Optional accessories



OBD - Opposed blade damper. (extra cost)

*to be added to grille depth dimension

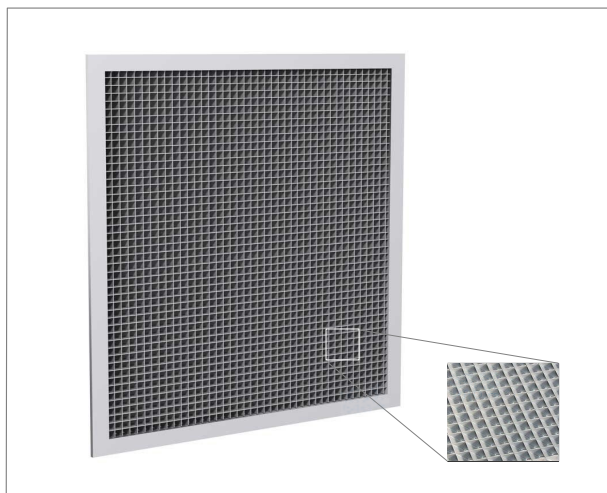


PL – Plenum box(extra cost)

Variants:

- uninsulated / thermal insulated
- axial or lateral spigot

EGC-45



Specifications

Egg crate grille with 45° core.

Used for exhaust, supply or recirculation, in ventilation systems.
Effective area 90%, square grid 12,5x12,5 mm spacing.

Material

Aluminium.

Finish

Standard finish: white RAL9003.

Optional finishing:

- different RAL (extra cost)
- natural aluminium

Mounting / Fixing

Mounting on the wall or ceiling (inside).

Fixing with visible screws (countersunk hole in frame).

Different fixing systems are available under certain commercial conditions.
(see **Fixing systems for grilles / diffusers**)

Optional accessories

Opposed blade damper – **OBD** (extra cost).

Plenum box – **PL** (extra cost).

Fixing systems (extra cost).

Order code: EGC-45 aaa x bbb +*

Product code

opening length L (mm)

opening height H (mm)

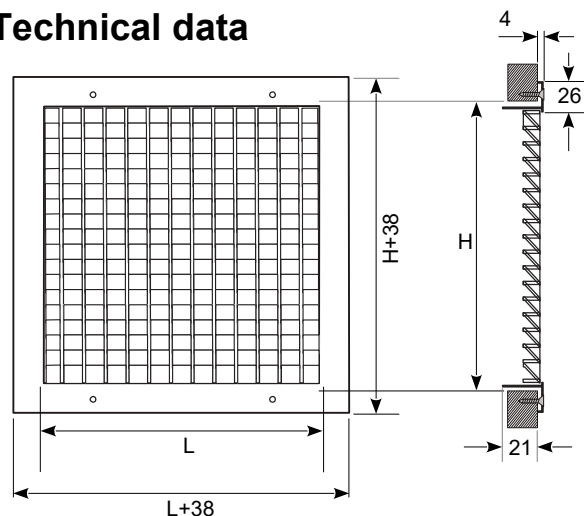
not specified - white RAL9003 (standard)

RALxxxx - optional RAL code

ALU - natural aluminium

* optional accessories

Technical data



LxH - opening hole size

Grille neck size: (L-10) x (H-10)

Standard sizes

L	H	Q (m³/h) @ Vef 2,5 (m/s)
200	200	310
250	250	480
300	300	690
350	350	940
400	400	1220
450	450	1550
500	500	1920
600	600	2750
595*	595*	2290

* external dimension 595x595, for cassette ceiling system
(without mounting holes in frame)

Custom sizes

Custom sizes available (under certain commercial conditions),
between: LxH 100x100 mm ~ LxH 1200x600 mm

EGC-45

Quick selection

Q (m³/h)	LxH (mm)	A _{er} (m²)	200x200	250x250	300x300	350x350	400x400	450x450	500x500	595x595*	600x600
			0,034	0,053	0,077	0,104	0,136	0,172	0,213	0,255	0,306
300	Lw(dB(A))	-	-	-	-	-	-	-	-	-	-
	ΔPt(Pa)	4	4	-	-	-	-	-	-	-	-
400	Lw(dB(A))	21	21	-	-	-	-	-	-	-	-
	ΔPt(Pa)	7	7	3	-	-	-	-	-	-	-
600	Lw(dB(A))	29	29	18	-	-	-	-	-	-	-
	ΔPt(Pa)	14	14	6	3	-	-	-	-	-	-
800	Lw(dB(A))	39	39	27	17	-	-	-	-	-	-
	ΔPt(Pa)	23	23	11	5	-	-	-	-	-	-
1000	Lw(dB(A))			36	24	18	-	-	-	-	-
	ΔPt(Pa)			18	9	6	-	-	-	-	-
1200	Lw(dB(A))				28	21	16	-	-	-	-
	ΔPt(Pa)				13	7	4	-	-	-	-
1500	Lw(dB(A))				35	26	18	-	-	-	-
	ΔPt(Pa)				18	10	6	4	-	-	-
1800	Lw(dB(A))					35	23	21	-	-	-
	ΔPt(Pa)					17	8	7	-	-	-
2000	Lw(dB(A))					37	28	23	17	-	-
	ΔPt(Pa)					20	13	8	5	-	-
2500	Lw(dB(A))						33	26	20	16	-
	ΔPt(Pa)						17	11	7	5	3
3000	Lw(dB(A))							33	25	22	17
	ΔPt(Pa)							16	10	7	5
3500	Lw(dB(A))								29	26	20
	ΔPt(Pa)								14	10	7
4000	Lw(dB(A))								34	29	23
	ΔPt(Pa)								17	14	8
4500	Lw(dB(A))									33	26
	ΔPt(Pa)									17	11
5000	Lw(dB(A))									36	28
	ΔPt(Pa)									19	13

*external dimension 595x595, for cassette ceiling system

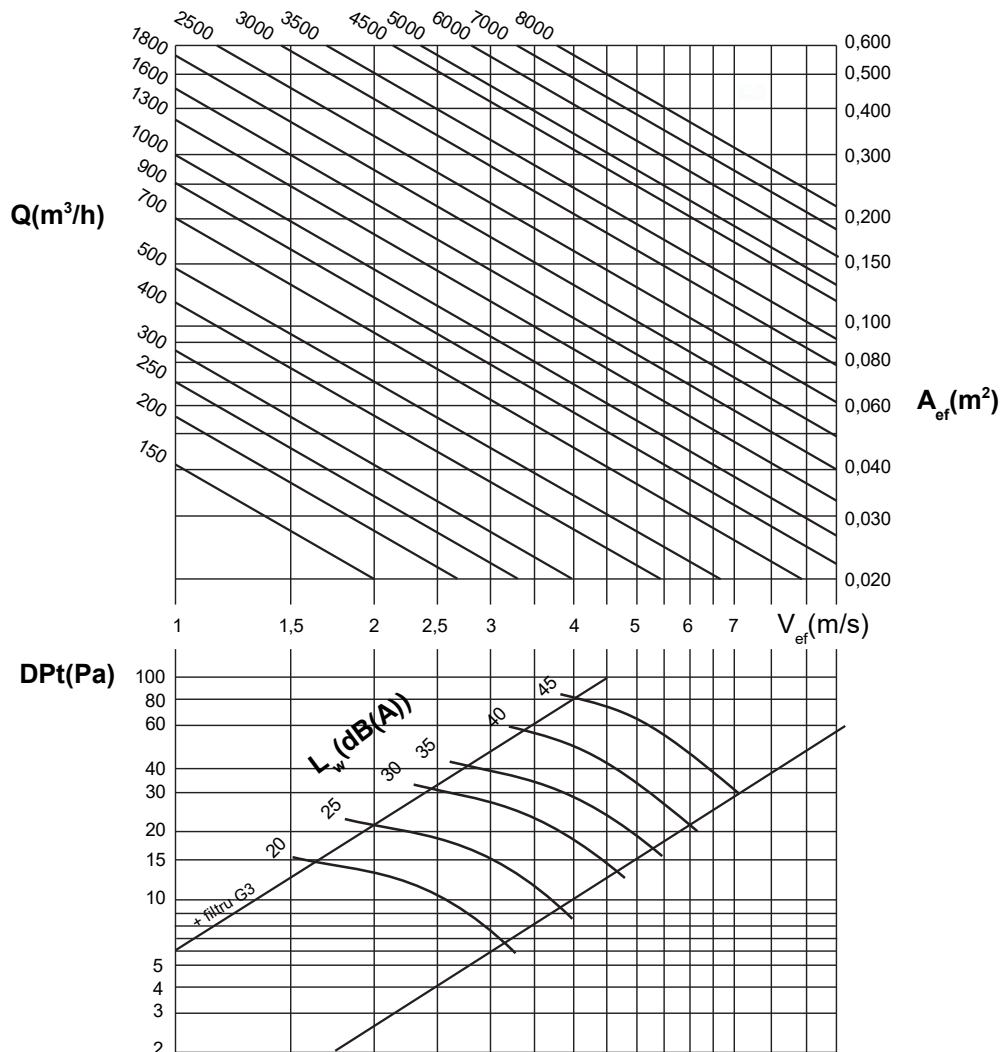
Data is valid for:

- Lw(db(A)) incl. room attenuation 5dB(A)

EGC-45

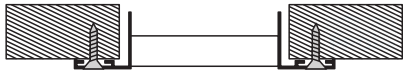
Technical data

		A _{ef} (m²)															
H (mm)	600	-	-	-	-	-	-	-	-	-	0,306	0,357	0,408	0,459	0,510		
	550	-	-	-	-	-	-	-	-	-	0,257	0,281	0,327	0,374	0,421	0,468	
	500	-	-	-	-	-	-	-	-	0,213	0,234	0,255	0,298	0,340	0,383	0,425	
	450	-	-	-	-	-	-	-	0,172	0,191	0,210	0,223	0,268	0,306	0,344	0,383	
	400	-	-	-	-	-	-	0,136	0,153	0,170	0,187	0,204	0,238	0,272	0,306	0,340	
	350	-	-	-	-	-	0,104	0,119	0,134	0,149	0,164	0,179	0,208	0,238	0,268	0,298	
	300	-	-	-	-	0,077	0,089	0,102	0,115	0,128	0,140	0,153	0,179	0,204	0,230	0,255	
	250	-	-	-	0,053	0,064	0,074	0,085	0,096	0,106	0,117	0,128	0,149	0,170	0,191	0,213	
	200	-	-	0,034	0,043	0,051	0,059	0,068	0,077	0,085	0,094	0,102	0,119	0,136	0,153	0,170	
	150	-	0,019	0,026	0,032	0,038	0,045	0,051	0,057	0,064	0,070	0,077	0,089	0,102	0,115	0,128	
	100	0,009	0,013	0,017	0,021	0,026	0,030	0,034	0,038	0,043	0,047	0,051	0,059	0,068	0,077	0,085	
		100	150	200	250	300	350	400	450	500	550	600	700	800	900	1000	
L (mm)																	



EGC-45

Fixing



Fixing with visible screws (**standard**).
Screws are supplied at the same color as grille.

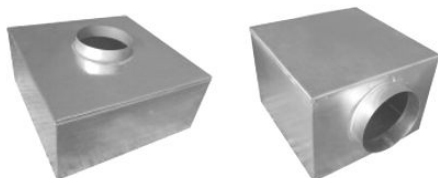
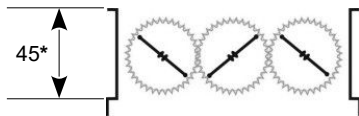
Different fixing systems are available (under certain commercial conditions).
(details in **Fixing systems for grilles / diffusers** chapter)

Optional accessories



OBD - Opposed blade damper. (extra cost)

*to be added to grille depth dimension

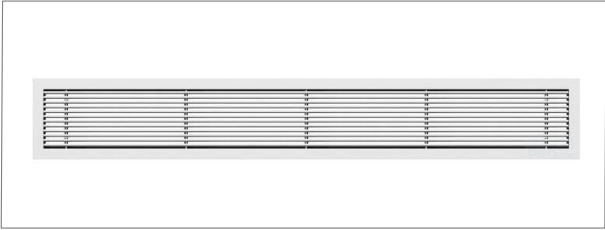


PL – Plenum box(extra cost)

Variants:

- uninsulated / thermal insulated
- axial or lateral spigot

LD



Specifications

Linear bar grille with fixed horizontal blades.

Used for exhaust, supply or recirculation, in ventilation systems.
Recommended for large air volume.

Material

Aluminium.

Finish

Standard finish: white RAL9003.

Optional finishing:
- different RAL (extra cost)
- natural aluminium

Mounting / Fixing

Mounting on the wall or ceiling (inside).
Fixing with visible screws (countersunk hole in frame).

Different fixing systems are available under certain commercial conditions.
(see **Fixing systems for grilles / diffusers**)

Optional accessories

Opposed blade damper – **OBD** (extra cost).
Plenum box – **PL** (extra cost).
Fixing systems (extra cost).

Order code:

LD

aaa x bbb

+

*

Product code

opening length L (mm)

opening height H (mm)

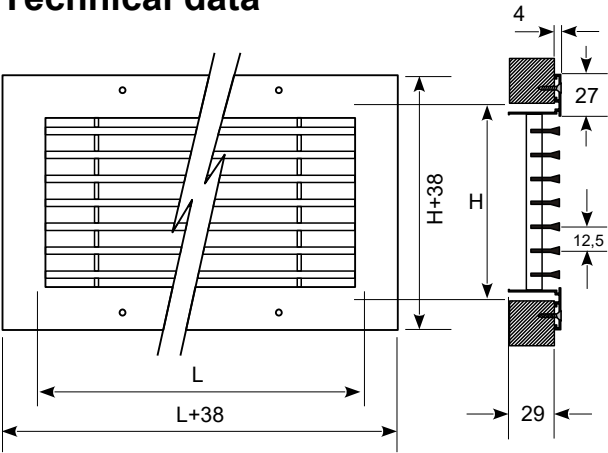
not specified - white RAL9003 (standard)

RALxxxx - optional RAL code

ALU - natural aluminium

* optional accessories

Technical data



LxH - opening hole size

Grille neck size: (L-10) x (H-10)

Standard sizes

L	H	Q (m³/h) @ Vef 2,5 (m/s)
600	100	340
800	100	450
1000	100	570
1200	100	680
1500	100	850
1800	100	990
2000	100	1170
600	125	420
800	125	570
1000	125	710
1200	125	850
1500	125	1000
1800	125	1260
2000	125	1440
600	150	500
800	150	680
1000	150	850
1200	150	1000
1500	150	1260
1800	150	1530
2000	150	1710

Custom sizes

Custom sizes available (under certain commercial conditions),
between: L= 300~3000 mm, H= 100~500 mm

LD

Quick selection

Q (m³/h)	LxH (mm)	A _{ef} (m²)	600x100	600x125	800x100	600x150	800x125	1000x100	800x150	1000x125	1200x100	1000x150	1200x125	1500x100	1200x150	1800x100	1500x125	2000x100	1500x150	1800x125	2000x125	1800x150	2000x150
			0,038	0,050	0,056	0,063	0,075	0,094	0,110	0,120	0,130	0,140	0,160	0,170	0,190								
300	Lt(m)		3,4																				
	Lw(dB(A))		-																				
	ΔPt(Pa)		4																				
400	Lt(m)		4,4	3,8																			
	Lw(dB(A))		18	-																			
	ΔPt(Pa)		6	4																			
600	Lt(m)		6,7	5,8	5,5	5,2																	
	Lw(dB(A))		29	21	18	-																	
	ΔPt(Pa)		12	7	6	4																	
800	Lt(m)		9	7,8	7,4	7	6,4																
	Lw(dB(A))		37	28	27	23	18																
	ΔPt(Pa)		20	11	10	8	6																
1000	Lt(m)		9,9	9,3	8,8	7,9	7,2																
	Lw(dB(A))		36	33	30	26	18																
	ΔPt(Pa)		19	15	13	9	6																
1200	Lt(m)				11,3	10,7	9,4	8,3	7,7	7,5													
	Lw(dB(A))				43	33	29	28	19	18													
	ΔPt(Pa)				29	16	12	8	6	6													
1500	Lt(m)					13,8	12,6	11,2	10,2	9,8	9,3	8,7											
	Lw(dB(A))					38	34	27	24	21	18	16											
	ΔPt(Pa)					23	17	11	9	7	6	5											
1800	Lt(m)						14,9	13,4	12,5	12,1	11,7	11,1	10,1	9,6									
	Lw(dB(A))						42	35	32	31	28	26	20	19									
	ΔPt(Pa)						30	18	14	13	10	9	7	6									
2000	Lt(m)							14,7	13,9	13,5	12,9	12,4	11,5	11,2	10,4								
	Lw(dB(A))							37	34	32	30	27	24	20	17								
	ΔPt(Pa)							22	14	12	10	9	7	6									
2500	Lt(m)								16,9	16,2	15,7	15,2	14,3	13,8	13,1								
	Lw(dB(A))								38	35	33	32	28	25	23								
	ΔPt(Pa)								22	18	16	13	11	9	8								
3000	Lt(m)										17,5	17,1	16,7	16,1	15,5								
	Lw(dB(A))										39	36	33	32	30								
	ΔPt(Pa)										25	20	15	13	12								
3500	Lt(m)												20	19	18								
	Lw(dB(A))												37	35	34								
	ΔPt(Pa)												21	17	16								
4000	Lt(m)														20								
	Lw(dB(A))														37								
	ΔPt(Pa)														22								

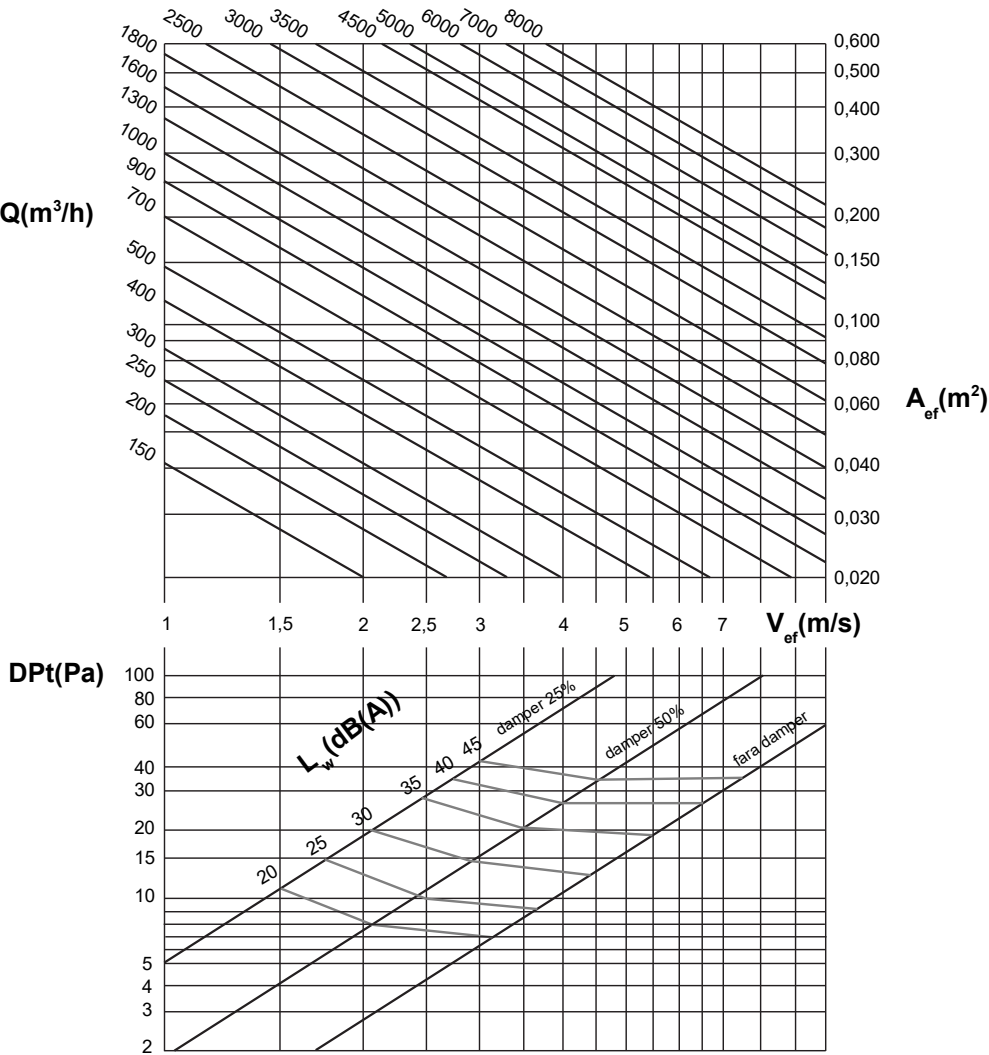
Data is valid for:

- H ceiling =3,0±0,5m
- L_t (m) @ V_t=0,2 m/s (without Coanda effect)
- L_w(dB(A)) incl. room attenuation 5dB(A)
- Temperature difference Dt=-10K
- without damper

LD

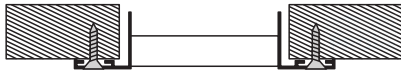
Technical data

A _{ef} (m ²)																
H (mm)	500	-	-	-	-	-	-	-	-	-	0,376	0,438	0,470	0,500	0,564	0,626
	450	-	-	-	-	-	-	-	-	0,282	0,338	0,395	0,423	0,450	0,507	0,564
	400	-	-	-	-	-	-	-	0,225	0,250	0,300	0,350	0,376	0,400	0,450	0,500
	350	-	-	-	-	-	-	0,175	0,197	0,220	0,263	0,307	0,330	0,350	0,395	0,438
	300	-	-	-	-	-	0,132	0,150	0,169	0,188	0,225	0,263	0,282	0,300	0,338	0,376
	250	-	-	-	-	0,094	0,110	0,125	0,141	0,157	0,188	0,219	0,235	0,250	0,282	0,313
	200	-	-	-	0,063	0,075	0,088	0,100	0,113	0,125	0,150	0,175	0,188	0,200	0,225	0,250
	150	-	-	0,038	0,047	0,056	0,066	0,075	0,085	0,094	0,113	0,132	0,141	0,150	0,169	0,188
	125	-	0,027	0,031	0,039	0,047	0,055	0,063	0,070	0,078	0,094	0,110	0,120	0,125	0,141	0,160
	100	0,019	0,022	0,025	0,031	0,038	0,044	0,050	0,056	0,063	0,075	0,088	0,094	0,100	0,113	0,130
		300	350	400	500	600	700	800	900	1000	1200	1400	1500	1600	1800	2000
		L (mm)														



LD

Fixing



Fixing with visible screws (**standard**).
Screws are supplied at the same color as grille.

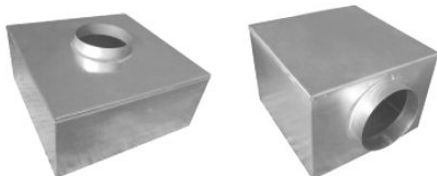
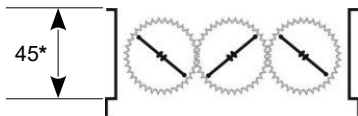
Different fixing systems are available (under certain commercial conditions).
(details in **Fixing systems for grilles / diffusers** chapter)

Optional accessories



OBD - Opposed blade damper. (extra cost)

*to be added to grille depth dimension



PL – Plenum box(extra cost)

Variants:
- uninsulated / thermal insulated
- axial or lateral spigot

PF



Specifications

Perforated panel grille.
Perforations Ø8 (R8 T12) (free area 40%)

Used for exhaust or recirculation, in ventilation systems.

Material

Aluminium.

Finish

Standard finish: white RAL9003.

Optional finishing:
- different RAL (extra cost)
- natural aluminium

Mounting / Fixing

Mounting on the wall or ceiling (inside).
Fixing with visible screws (countersunk hole in frame).

Different fixing systems are available under certain commercial conditions.
(see **Fixing systems for grilles / diffusers**)

Optional accessories

Opposed blade damper – **OBD** (extra cost).
Plenum box – **PL** (extra cost).
Fixing systems (extra cost).

Order code: PF aaa x bbb +*

Product code

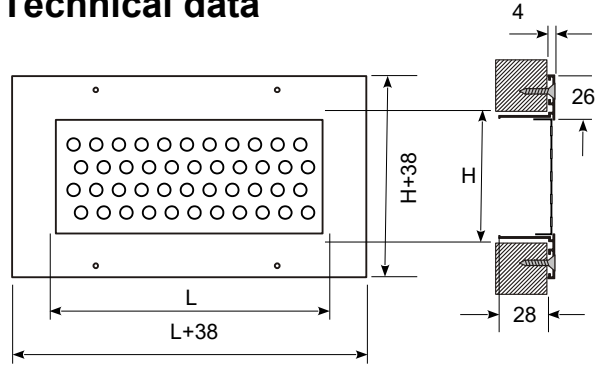
opening length L (mm)

opening height H (mm)

not specified - white RAL9003 (standard)
RALxxxx - optional RAL code

* optional accessories

Technical data



LxH - opening hole size
Grille neck size: (L-10) x (H-10)

Standard sizes

L	H	Q (m³/h) @ Vef 2,5 (m/s)
300	300	300
350	350	420
400	400	540
450	450	700
500	500	860
550	550	1050
600	600	1250
595*	595*	1080

* external dimension 595x595, for cassette ceiling system
(without mounting holes in frame)

Custom sizes

Custom sizes available (under certain commercial conditions),
between: LxH 100x100 mm ~ LxH 1200x600 mm

PF

Quick selection

Q (m³/h)	LxH (mm)	200x200	250x250	300x300	350x350	400x400	450x450	500x500	550x550	600x600	595x595*
	A _{gr} (m²)	0,014	0,023	0,033	0,046	0,060	0,077	0,095	0,116	0,138	0,119
100	Lw(dB(A))	15									
	ΔPt(Pa)	5									
200	Lw(dB(A))	27	15								
	ΔPt(Pa)	15	7								
300	Lw(dB(A))		26	17							
	ΔPt(Pa)		15	7							
400	Lw(dB(A))		33	24	16						
	ΔPt(Pa)		27	13	6						
600	Lw(dB(A))			33	24	17					
	ΔPt(Pa)			27	14	8					
800	Lw(dB(A))				31	24	17				
	ΔPt(Pa)				21	13	7				
1000	Lw(dB(A))					31	24	19			
	ΔPt(Pa)					22	13	9			
1200	Lw(dB(A))						28	23	20	15	17
	ΔPt(Pa)						20	12	10	7	8
1500	Lw(dB(A))							25	46	21	22
	ΔPt(Pa)							14	36	10	11
2000	Lw(dB(A))								46	28	31
	ΔPt(Pa)								34	18	22

*external dimension 595x595, for cassette ceiling system

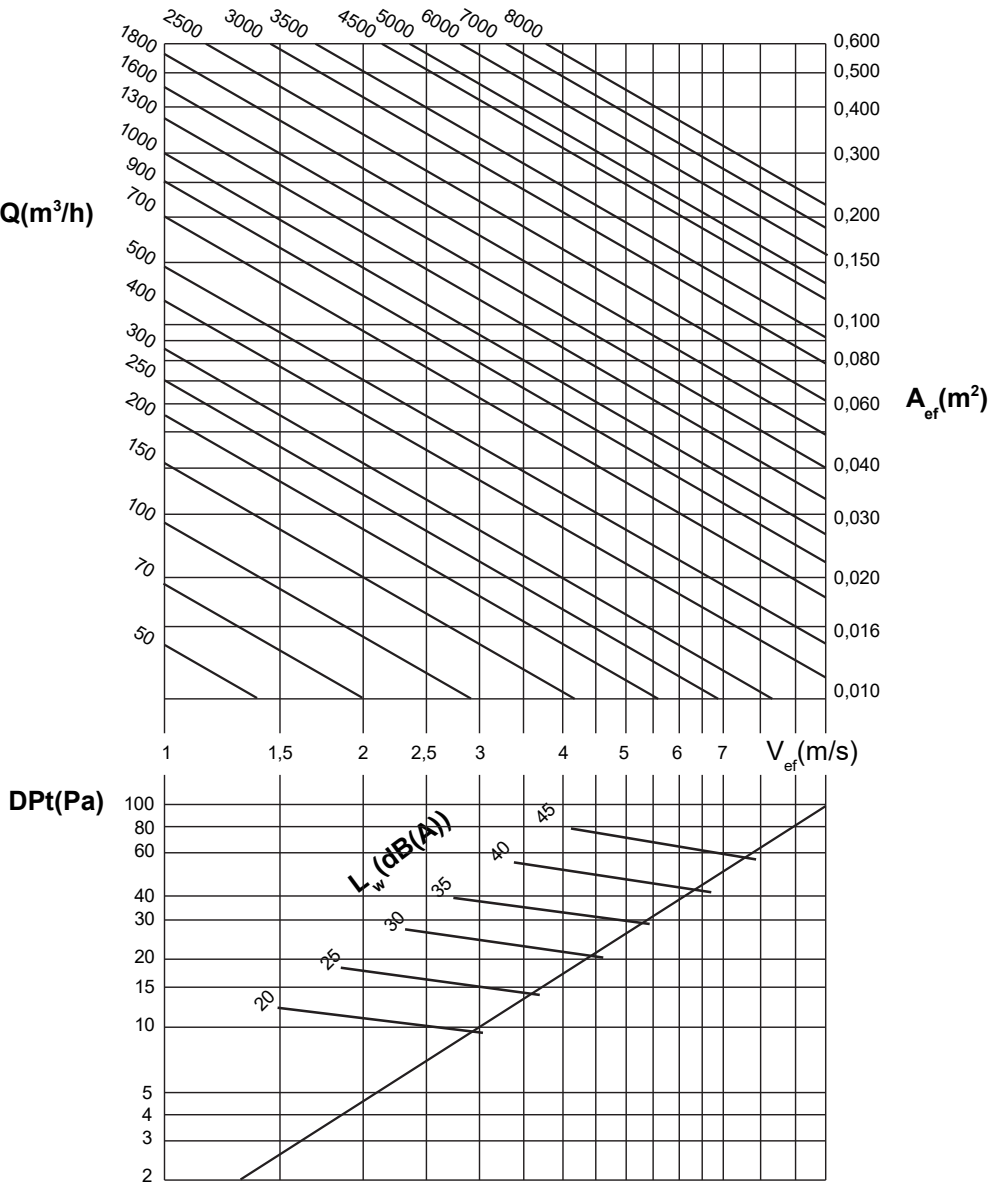
Data is valid for:

- Lw(dB(A)) incl. room attenuation 5dB(A)

PF

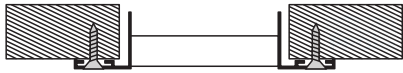
Technical data

A _{ef} (m ²)																
H (mm)	600	-	-	-	-	-	-	-	-	-	0,138	0,162	0,185	0,209	0,232	0,279
	500	-	-	-	-	-	-	-	-	0,095	0,115	0,134	0,154	0,173	0,193	0,232
	450	-	-	-	-	-	-	-	0,077	0,085	0,103	0,121	0,138	0,156	0,173	0,208
	400	-	-	-	-	-	-	0,060	0,068	0,076	0,091	0,107	0,122	0,138	0,153	0,184
	350	-	-	-	-	-	0,046	0,052	0,059	0,066	0,079	0,093	0,107	0,120	0,134	0,161
	300	-	-	-	-	0,033	0,039	0,045	0,050	0,056	0,068	0,079	0,091	0,102	0,114	0,137
	250	-	-	-	0,023	0,027	0,032	0,037	0,042	0,046	0,056	0,065	0,075	0,085	0,094	0,113
	200	-	-	0,014	0,018	0,022	0,025	0,029	0,033	0,037	0,044	0,052	0,059	0,067	0,074	0,089
	150	-	0,008	0,010	0,013	0,016	0,019	0,021	0,024	0,027	0,032	0,038	0,043	0,049	0,055	0,066
	100	0,003	0,005	0,007	0,008	0,010	0,012	0,014	0,015	0,017	0,021	0,024	0,028	0,031	0,035	0,042
		100	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200
		L (mm)														



PF

Fixing



Fixing with visible screws (**standard**).
Screws are supplied at the same color as grille.

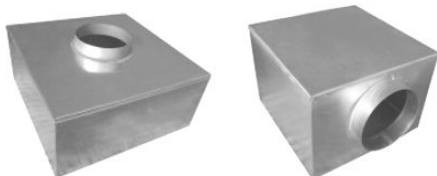
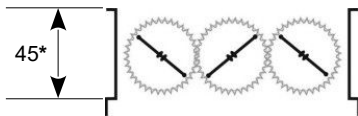
Different fixing systems are available (under certain commercial conditions).
(details in **Fixing systems for grilles / diffusers** chapter)

Optional accessories



OBD - Opposed blade damper. (extra cost)

*to be added to grille depth dimension



PL – Plenum box(extra cost)

Variants:

- uninsulated / thermal insulated
- axial or lateral spigot

Square ceiling diffuser

AN

[Back to Content](#)



Specifications

Square ceiling diffuser with 4-way air supply.
Used mainly for supply, in ventilation systems.

Material

Aluminium.

Finish

Standard finish: white RAL9003.

Optional finishing:
- different RAL (extra cost)

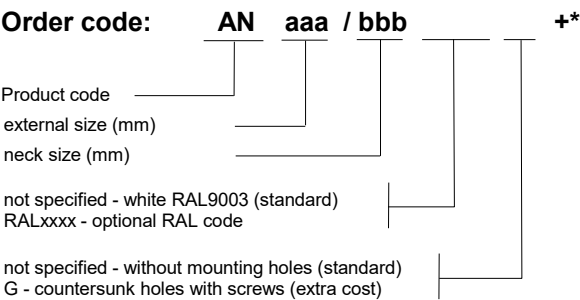
Mounting / Fixing

Mounting on standard or cassette ceiling (inside).

Standard delivery is without mounting holes in frame.
Screw fixing (at the same color) is optional (extra cost).

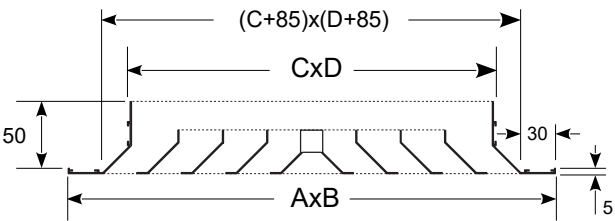
Optional accessories

Opposed blade damper – **OBD** (extra cost).
Plenum box – **PL** (extra cost).
Fixing systems.



* optional accessories

Technical data



CxD - diffuser neck size
Opening hole size: (C+85) x (D+85)

Standard sizes

External size AxB	Neck size CxD	Q (m³/h) @ Vef 3,5 (m/s)
620x620	475x475	1370
595x595*	450x450	1230
520x520	375x375	860
445x445	300x300	550
370x370	225x225	315
295x295	150x150	140

*external size AxB 595x595; for cassette ceiling system.

Standard delivery is without mounting holes in frame.
Screw fixing (at the same color) is optional (extra cost).

There are no other sizes available.

AN

Technical data

Q (m³/h)	Ex/Int (mm)	295 / 150	370 / 225	445 / 300	520 / 375	595 / 450*	620 / 475
	A _{ef} (m²)	0,011	0,025	0,044	0,068	0,098	0,109
120	L _i (m)	0,6					
	L _w (dB(A))	11					
	ΔP _t (Pa)	4					
160	L _i (m)	1,1	0,7				
	L _w (dB(A))	18	13				
	ΔP _t (Pa)	6	2				
200	L _i (m)	1,2	0,8				
	L _w (dB(A))	23	18				
	ΔP _t (Pa)	9	4				
250	L _i (m)	1,4	1,0				
	L _w (dB(A))	32	24				
	ΔP _t (Pa)	11	6				
300	L _i (m)	1,7	1,3	0,9			
	L _w (dB(A))	40	28	16			
	ΔP _t (Pa)	15	8	3			
400	L _i (m)	2,2	1,7	1,3			
	L _w (dB(A))	42	35	24			
	ΔP _t (Pa)	26	15	5			
500	L _i (m)	2,1	1,6	1,3			
	L _w (dB(A))	41	29	20			
	ΔP _t (Pa)	23	7	3			
600	L _i (m)		1,9	1,5			
	L _w (dB(A))		34	25			
	ΔP _t (Pa)		10	4			
800	L _i (m)			2,5	2	1,7	1,5
	L _w (dB(A))			41	32	24	22
	ΔP _t (Pa)			18	8	4	4
1000	L _i (m)			3,1	2,5	2,1	1,9
	L _w (dB(A))			46	37	30	28
	ΔP _t (Pa)			29	12	6	6
1200	L _i (m)				3	2,5	2,4
	L _w (dB(A))				42	34	32
	ΔP _t (Pa)				17	8	7
1600	L _i (m)				4	3,3	3,1
	L _w (dB(A))				49	41	39
	ΔP _t (Pa)				30	15	13
2000	L _i (m)					4,2	3,9
	L _w (dB(A))					47	42
	ΔP _t (Pa)					23	20

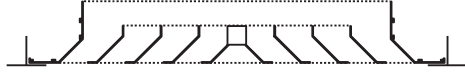
*external size AxB 595x595; for cassette ceiling system.

Data is valid for:

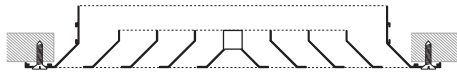
- H ceiling = 3,0±0,5m
- L_i (m) @ V_i=0,25 m/s (with Coanda effect)
- L_w(dB(A)) incl. room attenuation 5dB(A)
- Temperature difference Dt=-10K

AN

Fixing

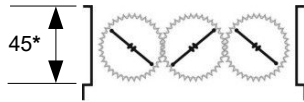


In cassette ceiling system(**standard**).



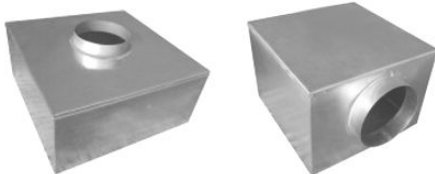
Fixing with visible screws (extra cost).
Countersunk holes in frame and visible screws (same color).

Optional accessories



OBD - Opposed blade damper (extra cost).

*to be added to diffuser depth dimension

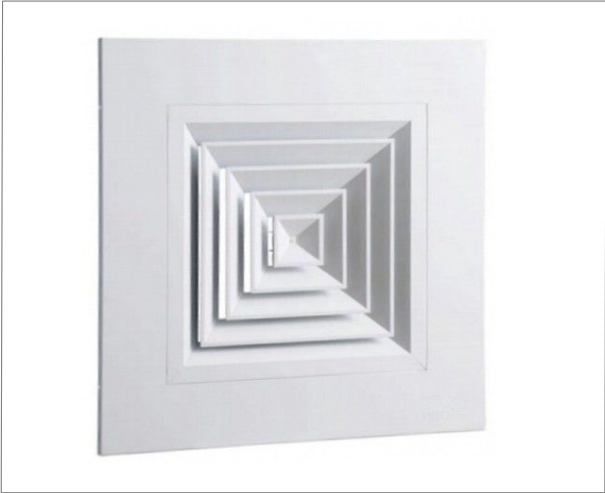


PL – Plenum box(extra cost)

Variants:

- uninsulated / thermal insulated
- axial or lateral spigot

AN-P



Specifications

Square ceiling diffuser 4-way for cassette ceiling with reduced neck.

Used mainly for supply, in ventilation systems.

Material

Aluminium core mounted in steel square frame.

Finish

Standard finish: white RAL9003.

Optional finishing:
- different RAL color (extra cost)

Mounting / Fixing

Mounting on cassette ceiling system.

There are no other mounting system available.

Optional accessories

Opposed blade damper – **OBD** (extra cost).
Plenum box – **PL** (extra cost).

Order code: **AN-P** **aaa / bbb** **+***

Product code

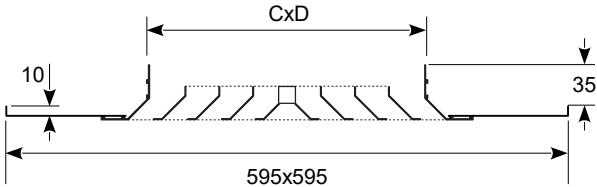
external size (mm)

neck size (mm)

not specified - white RAL9003 (standard)
RALxxxx - optional RAL code

* optional accessories

Technical data



CxD - diffuser neck size

Standard sizes

External size AxB	Neck size CxD	Q (m³/h) @ Vef 3,5 (m/s)
595x595	375x375	860
595x595	300x300	550
595x595	225x225	315

External size AxB 595x595 for cassette ceiling system.

There are no other sizes available.

AN-P

Technical data

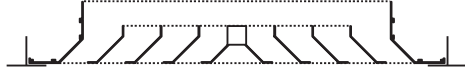
Q (m³/h)	Ext/Int (mm)	595 / 225	595 / 300	595 / 375
	A _{ef} (m²)	0,025	0,024	0,068
120	L _t (m)			
	L _w (dB(A))			
	ΔP _t (Pa)			
160	L _t (m)	0,7		
	L _w (dB(A))	13		
	ΔP _t (Pa)	2		
200	L _t (m)	0,8		
	L _w (dB(A))	18		
	ΔP _t (Pa)	4		
250	L _t (m)	1,0		
	L _w (dB(A))	24		
	ΔP _t (Pa)	6		
300	L _t (m)	1,3	0,9	
	L _w (dB(A))	28	16	
	ΔP _t (Pa)	8	3	
400	L _t (m)	1,7	1,3	
	L _w (dB(A))	35	24	
	ΔP _t (Pa)	15	5	
500	L _t (m)	2,1	1,6	1,3
	L _w (dB(A))	41	29	20
	ΔP _t (Pa)	23	7	3
600	L _t (m)		1,9	1,5
	L _w (dB(A))		34	25
	ΔP _t (Pa)		10	4
800	L _t (m)		2,5	2
	L _w (dB(A))		41	32
	ΔP _t (Pa)		18	8
1000	L _t (m)		3,1	2,5
	L _w (dB(A))		46	37
	ΔP _t (Pa)		29	12
1200	L _t (m)			3
	L _w (dB(A))			42
	ΔP _t (Pa)			17
1600	L _t (m)			4
	L _w (dB(A))			49
	ΔP _t (Pa)			30
2000	L _t (m)			
	L _w (dB(A))			
	ΔP _t (Pa)			

Data is valid for:

- H ceiling = 3,0±0,5m
- L_t (m) @ V_t=0,25 m/s (with Coanda effect)
- L_w(dB(A)) incl. room attenuation 5dB(A)
- Temperature difference Dt=-10K

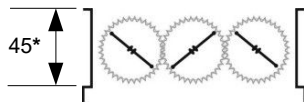
AN-P

Fixing



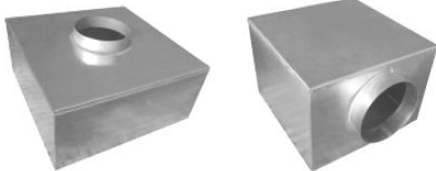
In cassette ceiling system(**standard**).

Optional accessories



OBD - Opposed blade damper (extra cost).

*to be added to diffuser depth dimension



PL – Plenum box(extra cost)

Variants:

- uninsulated / thermal insulated
- axial or lateral spigot

Square ceiling diffuser with circular connection

AN-C

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Specifications

Square ceiling diffuser with circular connection.

Used mainly for supply, in ventilation systems.

Material

Steel.

Finish

Standard finish: white RAL9003.

Optional finishing:
- different RAL (extra cost)

Mounting / Fixing

Mounting on cassette ceiling system.

There are no other mounting system available.

Optional accessories

Butterfly damper - **DF** (extra cost).
Plenum box - **PC** (extra cost).

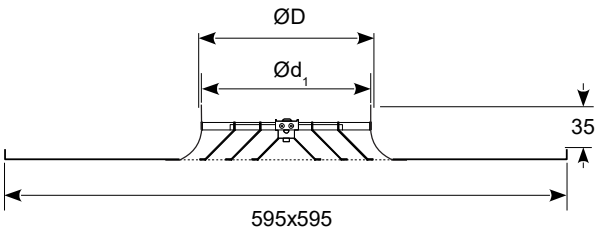
Order code: **AN-C** **aaa** / **bbb** **+***

Product code _____
external size (mm) _____
circular diameter (mm) _____

not specified - white RAL9003 (standard)
RALxxxx - optional RAL code _____

* optional accessories

Technical data



ØD - circular connection diameter

Standard sizes

External size AxB	Connection diam. ØD	Ød ₁	Q (m³/h) @ Vef 3,5 (m/s)
595x595	150	147	130
595x595	200	197	290
595x595	250	247	450
595x595	300	297	640
595x595	350	347	870

External size AxB 595x595 for cassette ceiling system.

There are no other sizes available.

Square ceiling diffuser with circular connection

AN-C

[Back to Content](#)

Technical data

Q (m³/h)	Ød (mm)	150	200	250	300	350
	A _{ef} (m²)	0,009	0,016	0,025	0,035	0,048
100	L _t (m)	0,9				
	L _w (dB(A))	10				
	ΔP _t (Pa)	7				
150	L _t (m)	1,3	1,2			
	L _w (dB(A))	19	<5			
	ΔP _t (Pa)	13	4			
200	L _t (m)	1,8	1,4			
	L _w (dB(A))	33	10			
	ΔP _t (Pa)	18	6			
300	L _t (m)	2,5	2,0	1,4		
	L _w (dB(A))	43	20	<5		
	ΔP _t (Pa)	30	12	3		
400	L _t (m)		2,6	1,8		
	L _w (dB(A))		36	10		
	ΔP _t (Pa)		19	5		
500	L _t (m)		3,0	2,4	2	
	L _w (dB(A))		45	22	7	
	ΔP _t (Pa)		33	9	6	
750	L _t (m)			3,3	2,8	2,7
	L _w (dB(A))			38	26	10
	ΔP _t (Pa)			24	12	5
1000	L _t (m)			4,3	3,9	3,1
	L _w (dB(A))			44	33	24
	ΔP _t (Pa)			38	18	9
1500	L _t (m)				5	4,5
	L _w (dB(A))				44	38
	ΔP _t (Pa)				38	24
2000	L _t (m)					5,0
	L _w (dB(A))					44
	ΔP _t (Pa)					38
2500	L _t (m)					
	L _w (dB(A))					
	ΔP _t (Pa)					
3000	L _t (m)					
	L _w (dB(A))					
	ΔP _t (Pa)					
3500	L _t (m)					
	L _w (dB(A))					
	ΔP _t (Pa)					
4000	L _t (m)					
	L _w (dB(A))					
	ΔP _t (Pa)					
5000	L _t (m)					
	L _w (dB(A))					
	ΔP _t (Pa)					

Data is valid for:

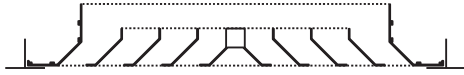
- H ceiling = 3,0±0,5m
- L_t (m) @ V_i=0,25 m/s (with Coanda effect)
- L_w(dB(A)) incl. room attenuation 5dB(A)
- Temperature difference Δt=-10K

Square ceiling diffuser with circular connection

AN-C

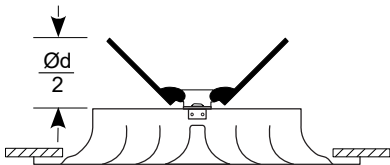
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Fixing

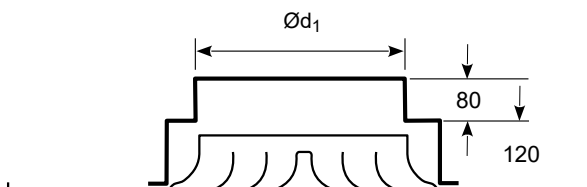


In cassette ceiling system(**standard**).

Optional accessories



Butterfly damper - **DF** (extra cost)



Plenum box - **PC**

Circular diffuser

AR

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Specifications

Circular diffuser with concentric fixed diffusion rings.
Inner core can be detached.

Used for mainly for supply, but can be used also for exhaust or recirculation, in ventilation systems.

Material

Steel.

Finish

Standard finish: white RAL9003.

Optional finishing:
- different RAL (extra cost)

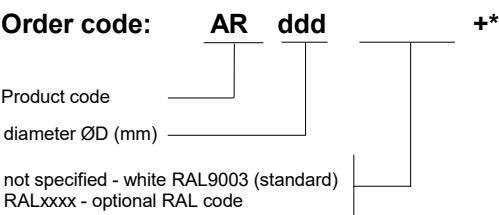
Mounting / Fixing

Mounting on ceiling (inside).
Standard delivery is without mounting holes in frame.

Fixing systems are available under certain commercial conditions.
(see **Fixing systems for grilles / diffusers**)

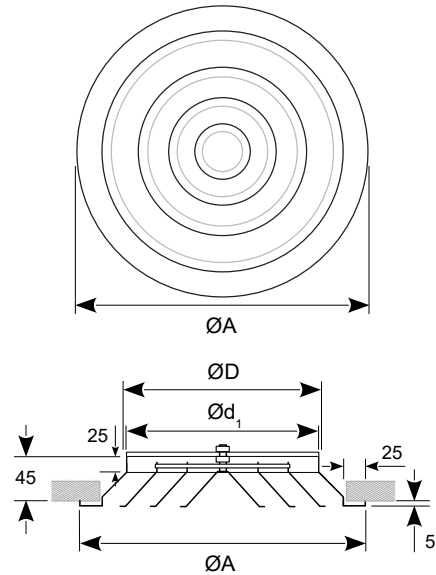
Optional accessories

Butterfly damper - **DF** (extra cost).
Plenum box - **PC** (extra cost).
Fixing systems.



* optional accessories

Technical data



ØD - circular connection diameter
ØA - external diameter
Opening hole size: external diameter - 50 mm

Standard sizes

ØD	Ød ₁	ØA	Q (m ³ /h) @ Vef 3,5 (m/s)
150	147	250	130
160	157	250	135
200	197	300	290
250	247	350	450
300	297	400	640
315	313	400	650
350	347	455	870
400	397	505	130
450	447	555	130
500	497	605	130

There are no other sizes available.

AR

Technical data

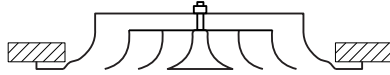
Q (m³/h)	Ød (mm)	150 160	200	250	300 315	350	400	450	500
	A _{ef} (m²)	0,009	0,016	0,025	0,035	0,048	0,063	0,079	0,098
100	Lt(m)	0,9							
	Lw(dB(A))	10							
	ΔPt(Pa)	7							
150	Lt(m)	1,3	1,2						
	Lw(dB(A))	19	<5						
	ΔPt(Pa)	13	4						
200	Lt(m)	1,8	1,4						
	Lw(dB(A))	33	10						
	ΔPt(Pa)	18	6						
300	Lt(m)	2,5	2,0	1,4					
	Lw(dB(A))	43	20	<5					
	ΔPt(Pa)	30	12	3					
400	Lt(m)		2,6	1,8					
	Lw(dB(A))		36	10					
	ΔPt(Pa)		19	5					
500	Lt(m)		3,0	2,4	2				
	Lw(dB(A))		45	22	7				
	ΔPt(Pa)		33	9	6				
750	Lt(m)			3,3	2,8	2,7			
	Lw(dB(A))			38	26	10			
	ΔPt(Pa)			24	12	5			
1000	Lt(m)			4,3	3,9	3,1	3,0		
	Lw(dB(A))			44	33	24	<5		
	ΔPt(Pa)			38	18	9	3		
1500	Lt(m)				5	4,5	4,0	3,8	
	Lw(dB(A))				44	38	12	20	
	ΔPt(Pa)				38	24	6	7	
2000	Lt(m)					5,0	4,8	4,5	4,2
	Lw(dB(A))					44	24	28	24
	ΔPt(Pa)					38	9	12	9
2500	Lt(m)						6,0	5,8	5,3
	Lw(dB(A))						30	35	30
	ΔPt(Pa)						14	19	14
3000	Lt(m)						7,0	6,7	6,2
	Lw(dB(A))						34	40	35
	ΔPt(Pa)						18	25	19
3500	Lt(m)							7,2	6,9
	Lw(dB(A))							46	37
	ΔPt(Pa)							38	22
4000	Lt(m)								8,1
	Lw(dB(A))								40
	ΔPt(Pa)								26
5000	Lt(m)								9,0
	Lw(dB(A))								48
	ΔPt(Pa)								43

Data is valid for:

- H ceiling = 3,0±0,5m
- Lt (m) @ Vi=0,25 m/s (with Coanda effect)
- Lw(db(A)) incl. room attenuation 5dB(A)
- Temperature difference Dt=-10K

AR

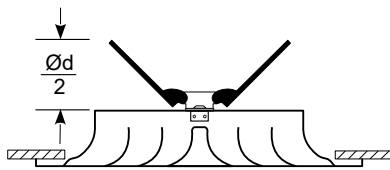
Fixing



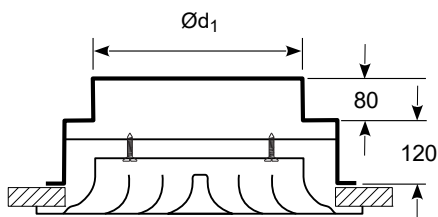
Standard delivery is without mounting holes in frame.
Inner core can be detached (screw system).

Fixing systems are available under certain commercial conditions.
(see **Fixing systems for grilles / diffusers**)

Optional accessories



Butterfly damper - **DF**



Plenum box- **PC**

SLT



Specifications

Linear slot diffuser with adjustable deflector.

Used for supply and exhaust in ventilation systems.

Material

Aluminium.

Deflector - polycarbonate.

Finish

Standard finish: white RAL9003, with black RAL9005 deflector.

Optional finishing:
- different RAL (extra cost)

Note: the deflector will be always black RAL9005 finish.

Mounting / Fixing

Mounting on wall or ceiling (inside).

Fixing in plenum box with crossbar **BF** (extra cost).

Optional accessories

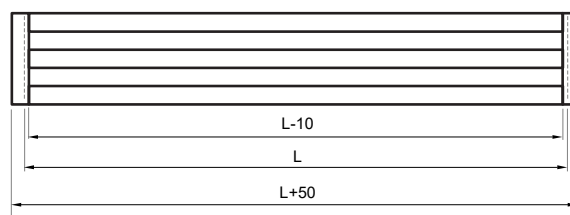
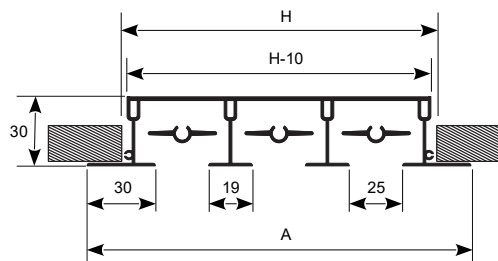
Plenum box – **PL** (extra cost).

Fixing systems.

Order code:	SLT	x F	bbb	+
Product code				
no. of slots				
length L (mm)				
not specified - white RAL9003 (standard)				
RALxxxx - optional RAL code				

* optional accessories

Technical data



LxH - opening hole size

Slot diffuser neck size: (L-10) x (H-10)

Dimensions

No. of slots	H-10	A
1	55	80
2	100	125
3	140	165
4	185	210
5	225	255
6	270	300

Sizes

Size H (height) cannot be custom made (only specified size).

Size L (length) standard:

L (mm) standard: 900, 1000, 1200, 1500, 1800, 2000 mm

Custom sizes available (under certain commercial conditions):

L = 200 ~ 3000 mm

SLT

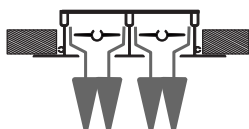
Selection table

Q (m³/h)	LxH (mm)		1-1000	1-1200	1-1500	1-1800	2-900	1-2000	2-1000	2-1200	2-1500	3-1000	2-1800	3-1200	4-900	2-2000	4-1000	3-1500	4-1200	3-1800	4-1500	3-2000	4-1800	4-2000
	A _{ef} (m²)		0,011	0,014	0,017	0,020	0,023	0,027	0,034	0,041	0,045	0,051	0,054	0,061	0,068	0,081	0,090							
100	L _t (m)		1,6	1,4	1,2																			
	L _w (dB(A))		27	23	-																			
	ΔP _t (Pa)		14	9	6																			
150	L _t (m)		2,4	2,1	1,9	1,5	1,4																	
	L _w (dB(A))		37	29	26	23	22																	
	ΔP _t (Pa)		31	21	17	9	8																	
200	L _t (m)		3,2	2,9	2,7	2,2	1,7	1,2	1,2															
	L _w (dB(A))		44	39	34	32	27	20	-															
	ΔP _t (Pa)		46	37	28	18	14	8	6															
250	L _t (m)			3,5	3,1	2,8	2,5	2,2	1,5	1,1														
	L _w (dB(A))			44	42	39	33	29	23	20														
	ΔP _t (Pa)			56	36	30	21	18	9	8														
300	L _t (m)				3,9	3,1	2,9	2,8	2,2	1,7	1,5													
	L _w (dB(A))				48	44	40	38	32	27	23													
	ΔP _t (Pa)				57	46	34	28	18	14	9													
350	L _t (m)					3,9	3,1	3,0	2,5	2,2	2,0	1,5	1,2											
	L _w (dB(A))					48	44	42	36	33	29	23	-											
	ΔP _t (Pa)					57	46	36	24	19	15	9	6											
400	L _t (m)						3,8	3,6	2,8	2,7	2,4	2,0	1,8	1,5	1,2									
	L _w (dB(A))						46	44	39	37	33	29	26	23	20									
	ΔP _t (Pa)						56	51	30	28	22	20	18	9	8									
500	L _t (m)									3,5	3,2	2,8	2,7	2,2	2,0	1,5	1,2							
	L _w (dB(A))									45	42	38	34	32	29	23	-							
	ΔP _t (Pa)									47	40	30	21	18	15	9	8							
600	L _t (m)											3,9	3,7	3,3	2,9	2,5	2,3	2,2	2,0					
	L _w (dB(A))											50	45	41	40	36	31	29	27					
	ΔP _t (Pa)											56	49	45	34	29	26	18	13					
700	L _t (m)												4,1	3,8	3,6	3,2	3,1	2,7	2,3					
	L _w (dB(A))												50	45	43	40	39	37	30					
	ΔP _t (Pa)												58	49	47	35	34	28	19					
800	L _t (m)												4,9	4,6	4,6	3,7	3,3	3,0	2,6					
	L _w (dB(A))												54	50	44	42	40	31	26					
	ΔP _t (Pa)												57	52	49	38	31	26						
900	L _t (m)															4,6	4,4	3,5	3,3					
	L _w (dB(A))															50	47	42	40					
	ΔP _t (Pa)															53	35	31	20					
1000	L _t (m)																4,7	4,1	3,5					
	L _w (dB(A))																51	47	42					
	ΔP _t (Pa)																55	48	35					
1200	L _t (m)																			3,9	3,7			
	L _w (dB(A))																			50	44			
	ΔP _t (Pa)																			56	49			
1400	L _t (m)																						4,0	
	L _w (dB(A))																						50	
	ΔP _t (Pa)																						58	

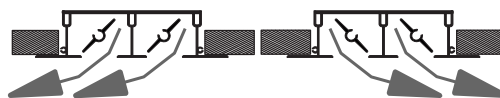
Data is valid for:

- H ceiling = 2,5±0,5m
- L_t (m) @ V_i=0,2 m/s (with Coanda effect)
- L_w(dB(A)) incl. room attenuation 5dB(A)
- Temperature difference Δt=-10K

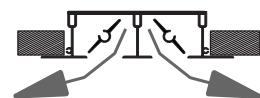
Adjusting flow pattern



Vertical diffusion



Unidirectional horizontal diffusion



Bidirectional horizontal diffusion

SLT

Mounting / Fixing

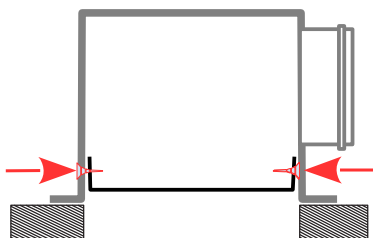
Note: Plenum box **PL** and crossbar **BF** are not included (extra cost).
The crossbars are not delivered mounted in plenum box.



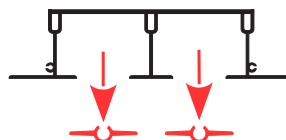
Crossbar **BF**

SLT	L
1 F	60
2 F	105
3 F	145
4 F	190

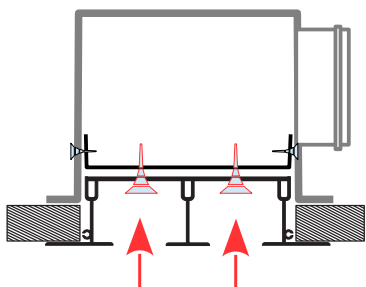
A. Plenum box with external border



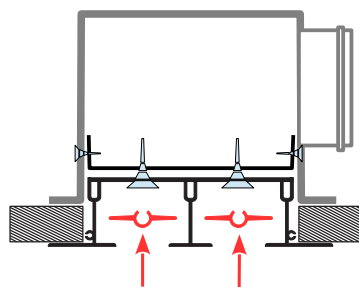
1. Adjust and mount the crossbar



2. Take the deflectors out of the slot diffuser

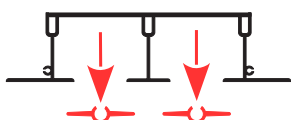


3. Screw the slot diffuser to the crossbar

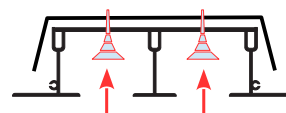


4. Reinsert the deflectors in the slot diffuser

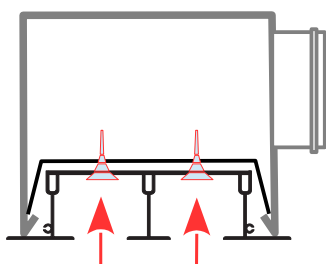
B. Plenum box with inside border frame



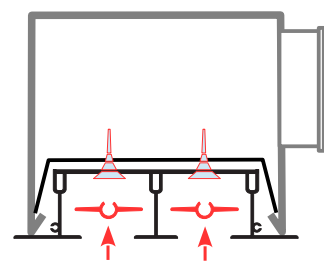
1. Take the deflectors out of the slot diffuser



2. Attach the crossbar
(without tightening the screws)

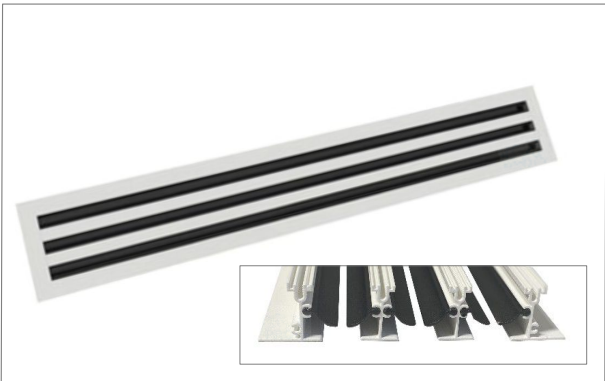


3. Insert the crossbar into the plenum box
and tighten the screws



4. Reinsert the deflectors in the slot diffuser

SLD



Specifications

Linear slot diffuser with adjustable deflector.
Used for supply and exhaust in ventilation systems.

Material

Aluminium.

Finish

Standard finish: white RAL9003, with black RAL9005 deflector.
Optional finishing:
- different RAL (extra cost)

Mounting / Fixing

Mounting on wall or ceiling (inside).
Fixing in plenum box with crossbar **BF-D** (extra cost).

Optional accessories

Plenum box – **PL** (extra cost).
Fixing systems.

Order code: **SLD** **x F** **bbb** **+***

Product code

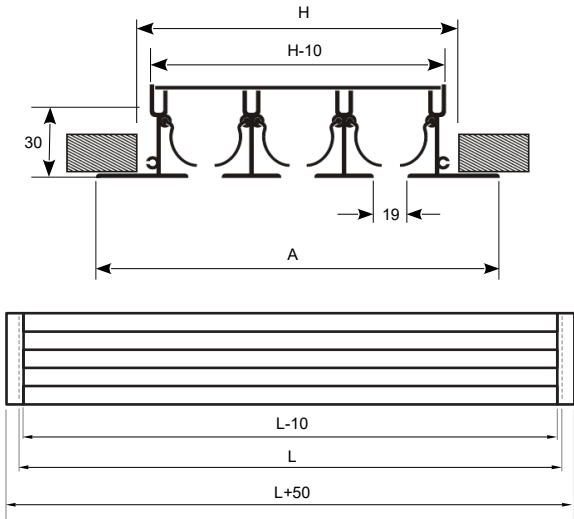
no. of slots

length L (mm)

not specified - white RAL9003 (standard)
RALxxxx - optional RAL code

* optional accessories

Technical data



LxH - opening hole size
Slot diffuser neck size: (L-10) x (H-10)

Dimensions

No. of slots	H-10	A
1	45	75
2	90	120
3	130	160
4	175	200

Sizes

Size H (height) cannot be custom made (only specified size).

Size L (length) standard:
L (mm) standard: 900, 1000, 1200, 1500, 1800, 2000 mm

Custom sizes available (under certain commercial conditions):
L = 200 ~ 3000 mm

SLD

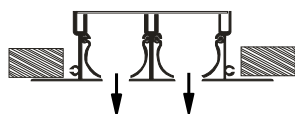
Selection table

Q (m³/h)	LxH (mm)	A _{ef} (m²)	1-1000	1-1200	1-1500	1-1800	2-900	1-2000	2-1000	2-1200	2-1500	3-1000	2-1800	3-1200	4-900	2-2000	4-1000	3-1500	4-1200	3-1800	4-1500	3-2000	4-1800	4-2000
			0,011	0,014	0,017	0,020	0,023	0,027	0,034	0,041	0,045	0,051	0,054	0,061	0,068	0,081	0,090							
100	L _t (m)		1,6	1,4	1,2																			
	L _w (dB(A))		27	23	-																			
	ΔP _t (Pa)		14	9	6																			
150	L _t (m)		2,4	2,1	1,9	1,5	1,4																	
	L _w (dB(A))		37	29	26	23	22																	
	ΔP _t (Pa)		31	21	17	9	8																	
200	L _t (m)		3,2	2,9	2,7	2,2	1,7	1,2	1,2															
	L _w (dB(A))		44	39	34	32	27	20	-															
	ΔP _t (Pa)		46	37	28	18	14	8	6															
250	L _t (m)			3,5	3,1	2,8	2,5	2,2	1,5	1,1														
	L _w (dB(A))			44	42	39	33	29	23	20														
	ΔP _t (Pa)			56	36	30	21	18	9	8														
300	L _t (m)				3,9	3,1	2,9	2,8	2,2	1,7	1,5													
	L _w (dB(A))				48	44	40	38	32	27	23													
	ΔP _t (Pa)				57	46	34	28	18	14	9													
350	L _t (m)					3,9	3,1	3,0	2,5	2,2	2,0	1,5	1,2											
	L _w (dB(A))					48	44	42	36	33	29	23	-											
	ΔP _t (Pa)					57	46	36	24	19	15	9	6											
400	L _t (m)						3,8	3,6	2,8	2,7	2,4	2,0	1,8	1,5	1,2									
	L _w (dB(A))						46	44	39	37	33	29	26	23	20									
	ΔP _t (Pa)						56	51	30	28	22	20	18	9	8									
500	L _t (m)								3,5	3,2	2,8	2,7	2,2	2,0	1,5	1,2								
	L _w (dB(A))								45	42	38	34	32	29	23	-								
	ΔP _t (Pa)								47	40	30	21	18	15	9	8								
600	L _t (m)											3,9	3,7	3,3	2,9	2,5	2,3	2,2	2,0					
	L _w (dB(A))											50	45	41	40	36	31	29	27					
	ΔP _t (Pa)											56	49	45	34	29	26	18	13					
700	L _t (m)												4,1	3,8	3,6	3,2	3,1	2,7	2,3					
	L _w (dB(A))												50	45	43	40	39	37	30					
	ΔP _t (Pa)												58	49	47	35	34	28	19					
800	L _t (m)												4,9	4,6	4,3	3,7	3,3	3,0	2,6					
	L _w (dB(A))												54	50	44	42	40	31	26					
	ΔP _t (Pa)												57	52	49	38	31	26						
900	L _t (m)															4,6	4,4	3,5	3,3					
	L _w (dB(A))															50	47	42	40					
	ΔP _t (Pa)															53	35	31	20					
1000	L _t (m)																4,7	4,1	3,5					
	L _w (dB(A))																51	47	42					
	ΔP _t (Pa)																55	48	35					
1200	L _t (m)																		3,9	3,7				
	L _w (dB(A))																		50	44				
	ΔP _t (Pa)																		56	49				
1400	L _t (m)																						4,0	
	L _w (dB(A))																						50	
	ΔP _t (Pa)																						58	

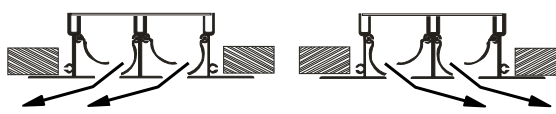
Data is valid for:

- H ceiling = 2,5±0,5m
- L_t (m) @ V_i=0,2 m/s (with Coanda effect)
- L_w(dB(A)) incl. room attenuation 5dB(A)
- Temperature difference Δt=-10K

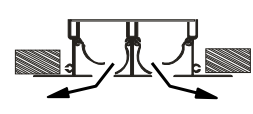
Adjusting flow pattern



Vertical diffusion



Unidirectional horizontal diffusion



Bidirectional horizontal diffusion

SLD

Mounting / Fixing

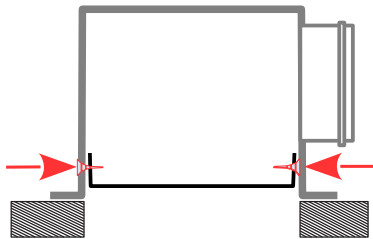
Note: Plenum box **PL** and crossbar **BF-D** are not included (extra cost).
The crossbars are not delivered mounted in plenum box.



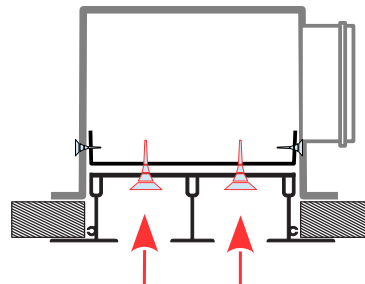
Crossbar **BF-D**

SLD	L
1 F	50
2 F	95
3 F	135
4 F	180

A. Plenum box with external border

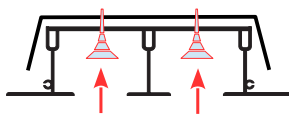


1. Adjust and mount the crossbar

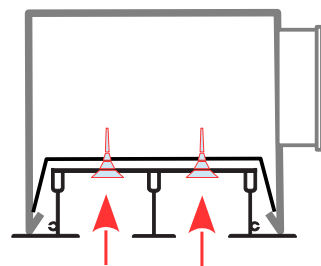


2. Screw the slot diffuser to the crossbar

B. Plenum box with inside border frame



1. Attach the crossbar
(without tightening the screws)



2. Insert the crossbar into the plenum box
and tighten the screws

SLW



Specifications

Linear slot diffuser with adjustable blades.

Used for supply, exhaust or recirculation in ventilation systems.

Material

Steel frame.
Plastic adjustable blades.

Finish

Standard finish: white RAL9003, with black RAL9005 deflector.

Optional finishing:
- different RAL (extra cost)

Note: the deflector will be always black RAL9005 finish.

Mounting / Fixing

Mounting on ceiling (inside).
Mounting directly in plasterboard ceiling.

Optional accessories

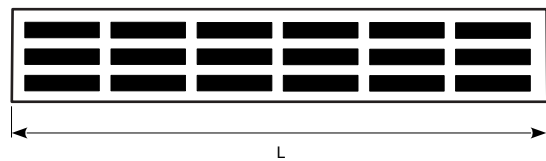
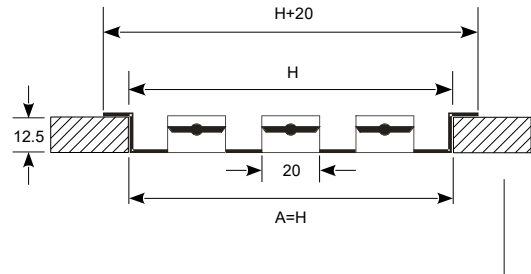
Plenum box – **PL** (extra cost).

Order code: **SLW** x **F** **bbb** **+***

Product code
no. of slots
length L (mm)
not specified - white RAL9003 (standard)
RALxxxx - optional RAL code

* optional accessories

Technical data



LxH - opening hole size

Dimensions

No. of slots	H=A
1	40
2	75
3	110
4	145

Sizes

Size H (height) cannot be custom made (only specified size).

Size L (length) standard:

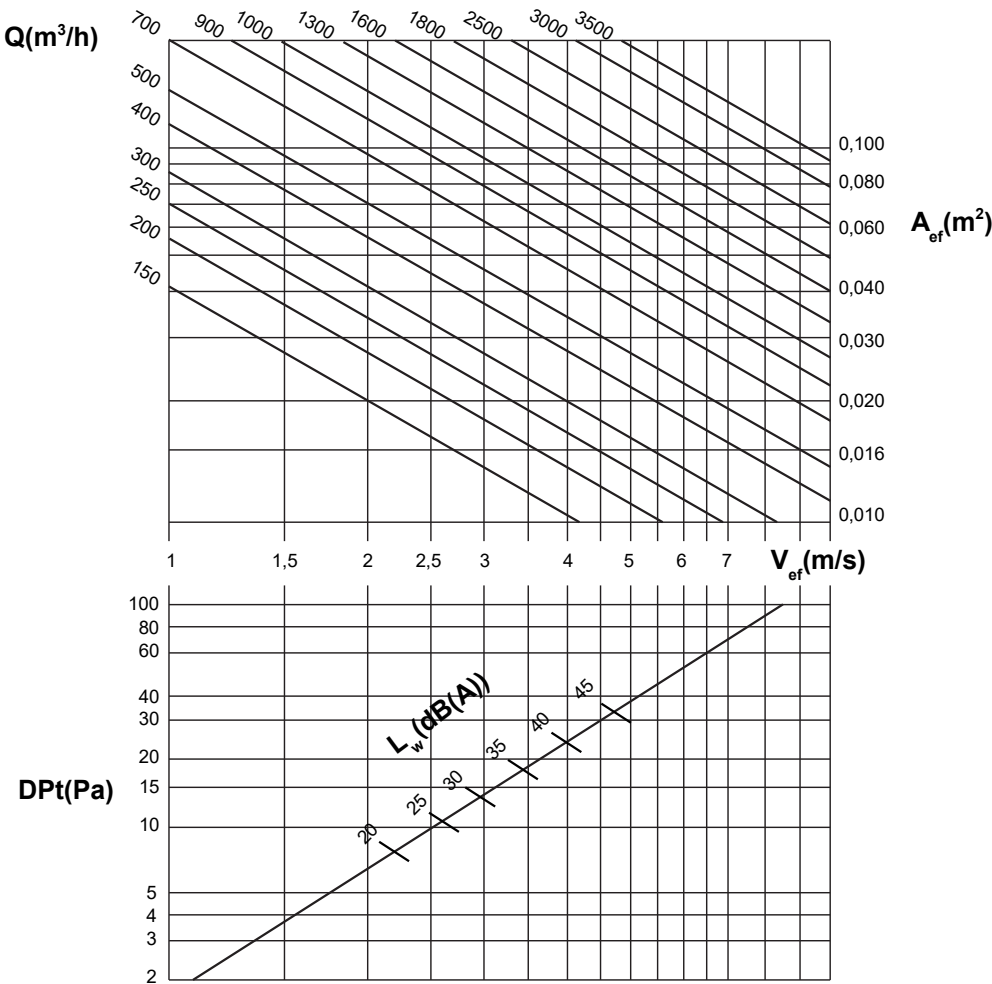
L (mm) standard: 900, 1000, 1200, 1500, 1800, 2000 mm

Custom sizes available (under certain commercial conditions):
L = 200 ~ 3000 mm

SLW

Selection table

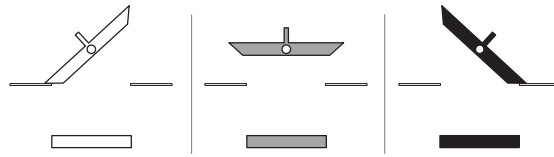
		A _{ef} (m ²)			
		1 slot	2 slots	3 slots	4 slots
L(m)	2000	0.025	0.049	0.074	0.098
	1800	0.023	0.045	0.068	0.091
	1500	0.019	0.038	0.057	0.076
	1200	0.015	0.030	0.045	0.060
	1000	0.011	0.023	0.034	0.045
	900	0.011	0.023	0.034	0.045



Data is valid for:

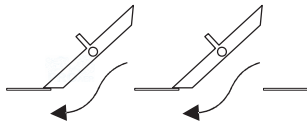
- H ceiling =2,5±0,5m
- L_t (m) @ V_t=0,2 m/s (with Coanda effect)
- L_w(db(A)) incl. room attenuation 5dB(A)
- Temperature difference Dt=-10K

SLW

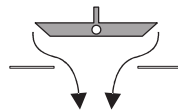


Blade orientation

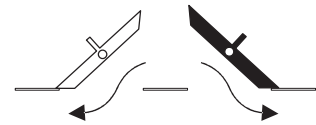
Flow pattern



Unidirectional horizontal diffusion.
Wide dispersion airflow.
Used for supply.



Vertical diffusion.
Used for supply, exhaust
or recirculation.

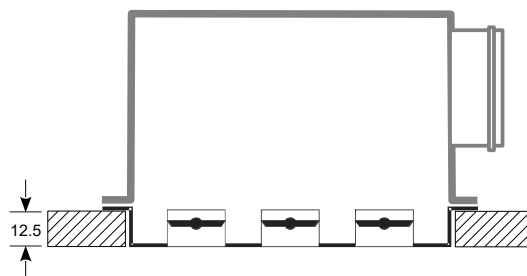


Bidirectional horizontal diffusion.
Wide dispersion airflow.
Used for supply.



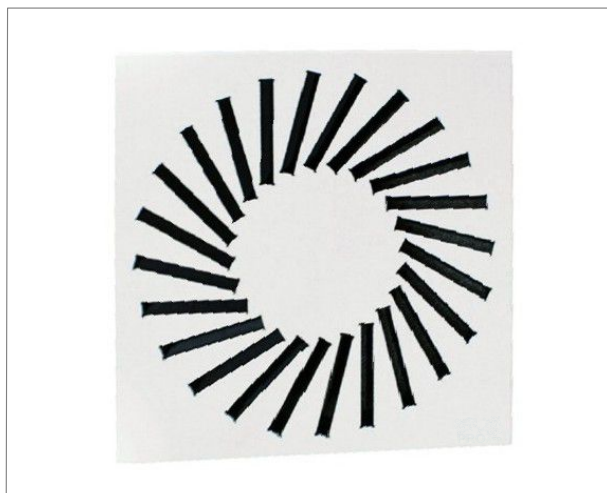
Mounting / Fixing

Note: Plenum box **PL** is not included (extra cost).



Mounting directly in plasterboard ceiling.

SWR-1



Specifications

Square swirl diffuser with adjustable blades.

Used for supply, exhaust or recirculation in ventilation systems.

Material

Steel plate.
Plastic adjustable blades.

Finish

Standard finish: white RAL9003, with black RAL9005 blades.

Optional finishing:
- different RAL (extra cost)

Note: the blades will be always black RAL9005 finish.

Mounting / Fixing

Mounting on standard or cassette ceiling (inside).

Fixing in plenum box with crossbar **BW** (extra cost).

Optional accessories

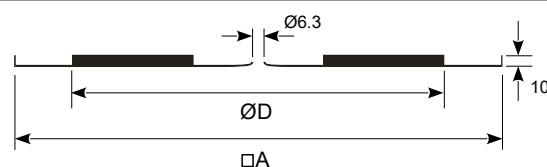
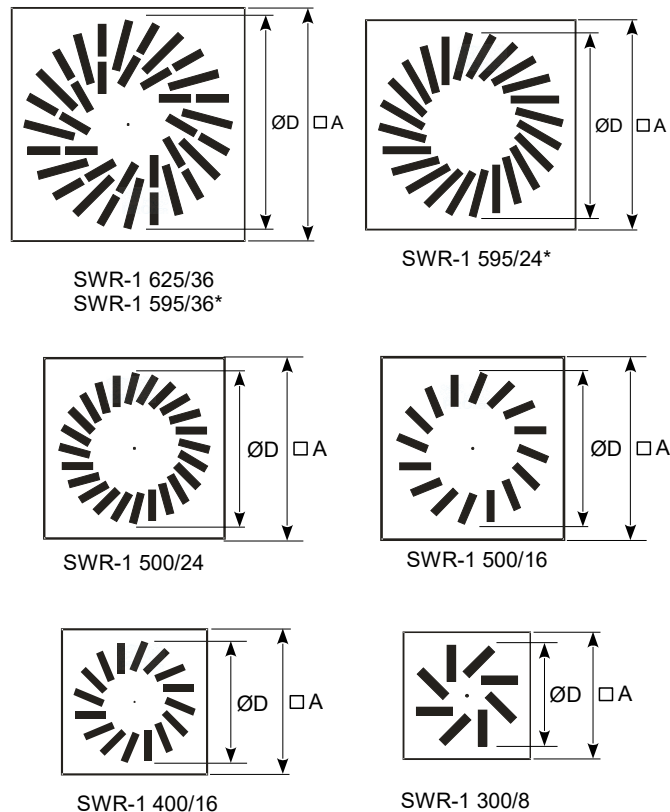
Plenum box – **PL** (extra cost).
Fixing systems.

Order code: **SWR-1** **595** / **24** + *

Product code _____
size _____
no. of blades _____
not specified - white RAL9003 (standard)
RALxxxx - optional RAL code _____

* optional accessories

Technical data



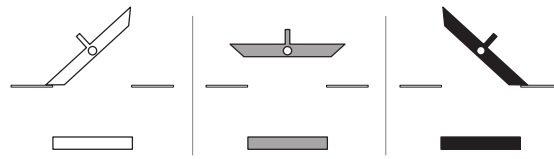
Standard sizes

Dimensions	no. of blades	□A	ØD
625/36	36	620	560
595/36*	36	595	530
595/24*	24	595	530
500/24	24	498	430
500/16	16	498	430
400/16	16	398	340
300/8	8	298	240

*external size AxB 595x595 for cassette ceiling system.

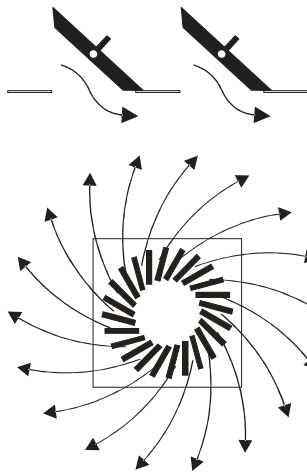
There are no other sizes available.

SWR-1

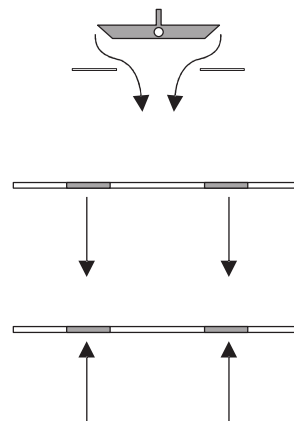


Blade orientation

Flow pattern

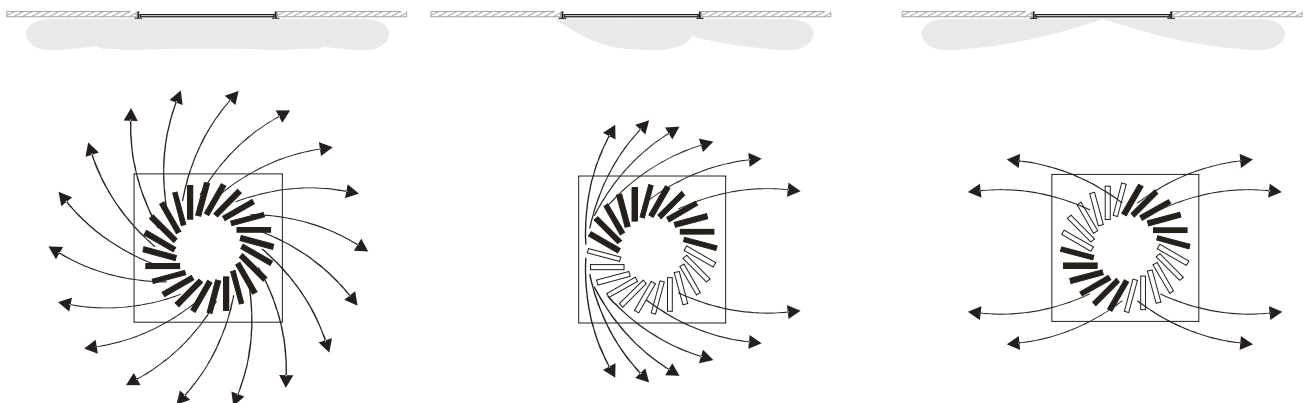


Uniform horizontal diffusion.
Wide dispersion airflow.
Used for supply.



Vertical diffusion.
Used for supply, exhaust
or recirculation.

Flow pattern



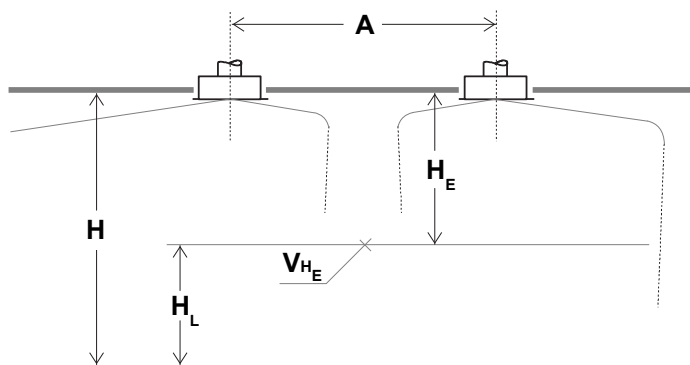
Uniform circular diffusion

Semicircular diffusion

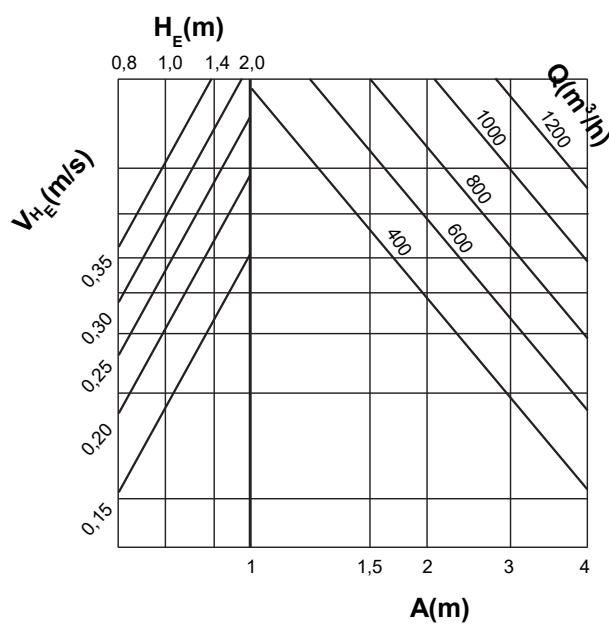
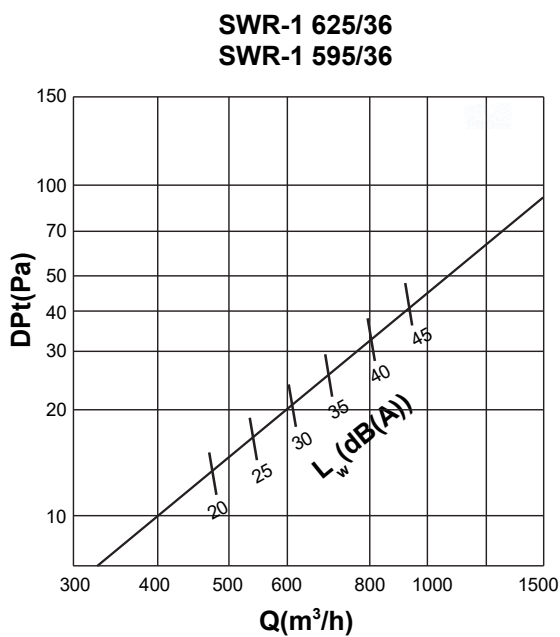
Bidirectional diffusion

SWR-1

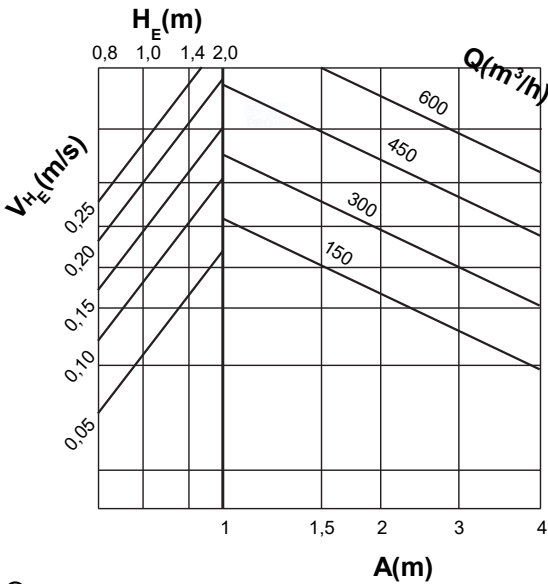
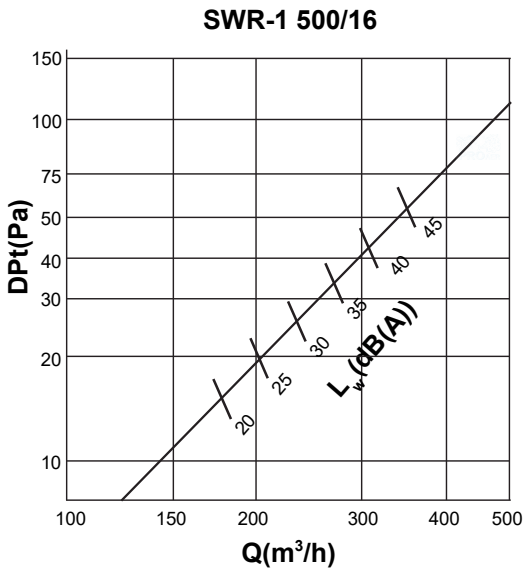
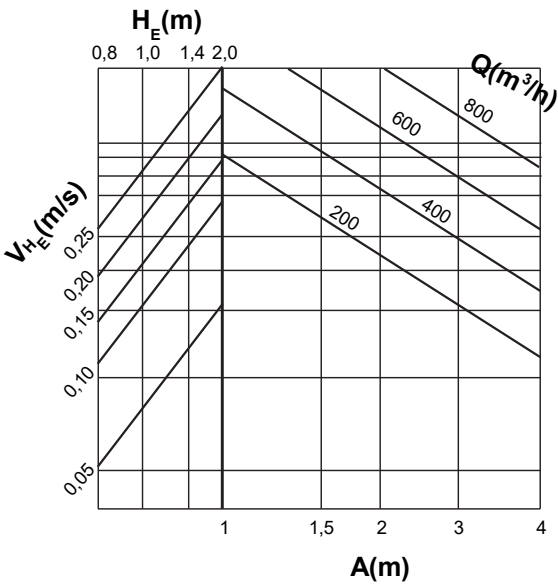
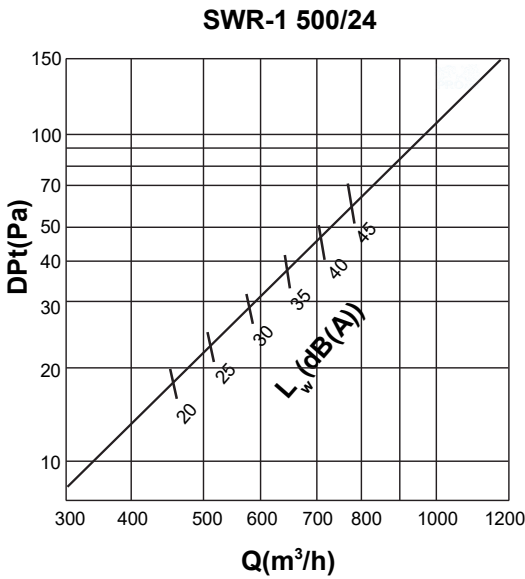
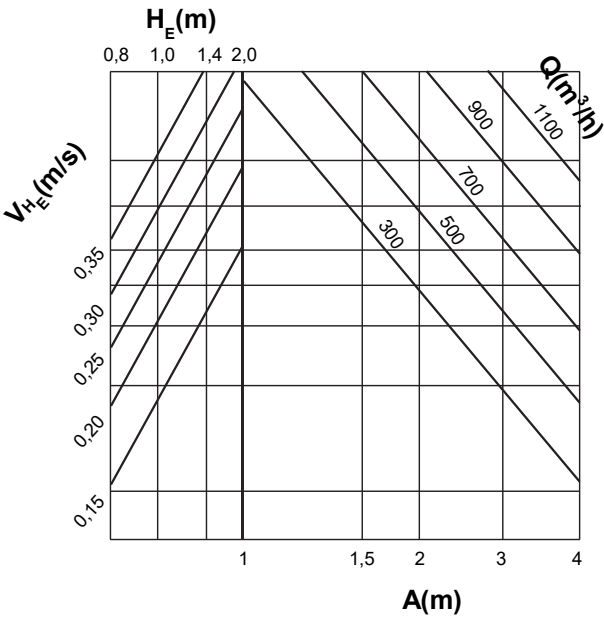
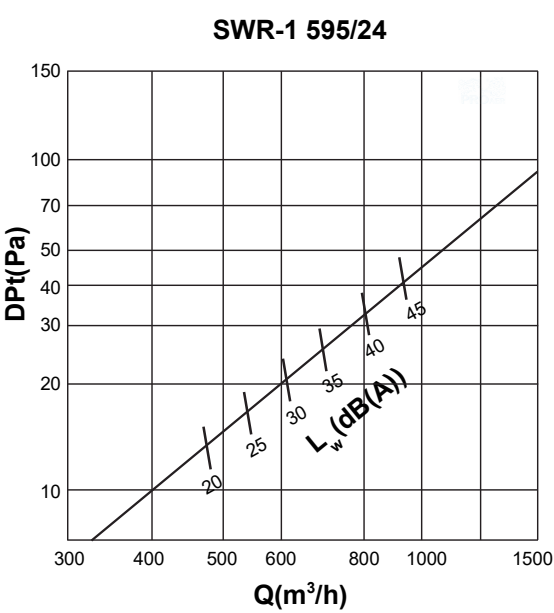
Technical data



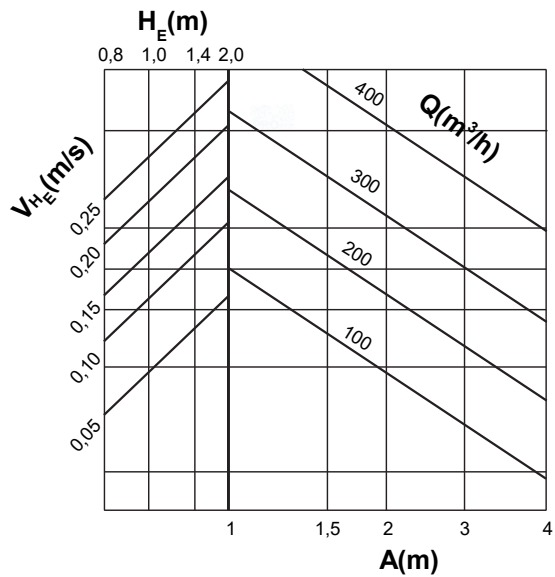
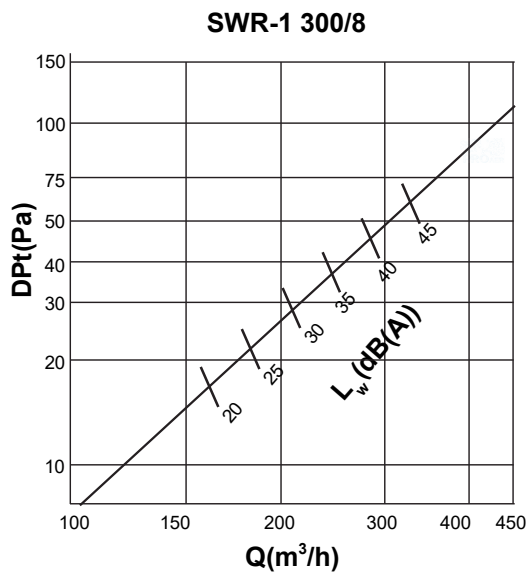
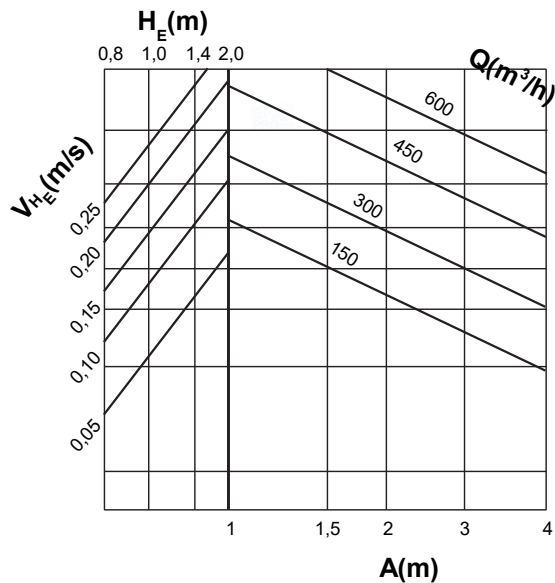
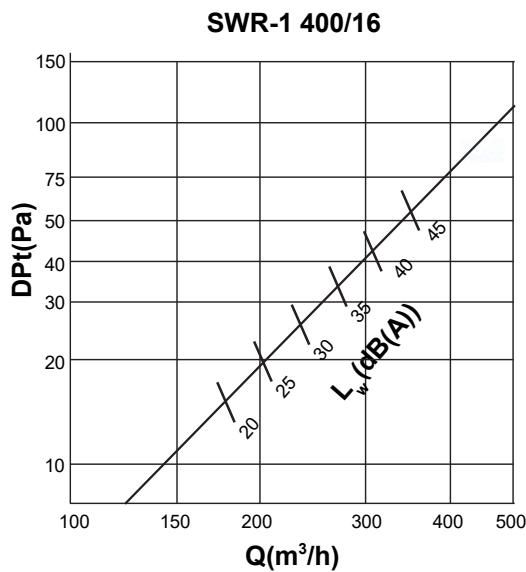
$H = 2,5 \sim 4,0$ m (room height)
 $H_L = 1,8$ m (occupied area)
 $H_E = H - H_L$ (m)
 A = distance (m)
 V_{H_E} = air velocity when entering in zone H_L (m/s)



SWR-1



SWR-1



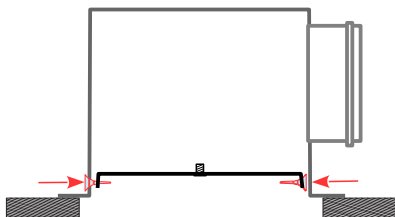
Square swirl diffuser with adjustable blades

Back to Content

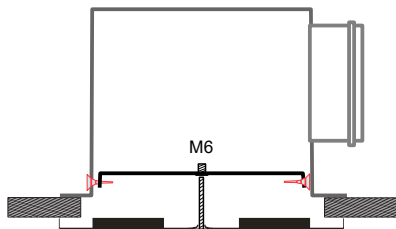
SWR-1

Mounting

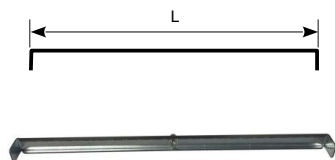
Note: Plenum box **PL** and crossbar **BW** are not included (extra cost).
The crossbars are not delivered mounted in plenum box.



1. Adjust and mount the crossbar **BW** into the plenum box



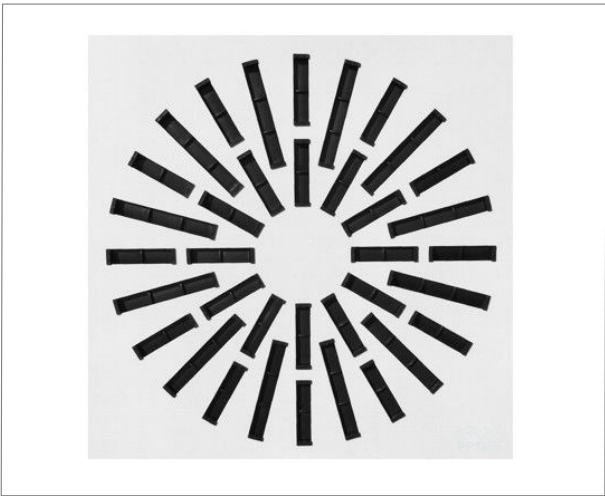
2. Attach the diffuser with M6x80 screw to the crossbar



Crossbar **BW**

SWR-1	L
625/36	580
595/36 595/24	550
500/24 500/16	450
400/16	360
300/8	260

SWR-2



Specifications

Square swirl diffuser with adjustable blades.
Used for supply, exhaust or recirculation in ventilation systems.

Material

Steel plate.
Plastic adjustable blades.

Finish

Standard finish: white RAL9003, with black RAL9005 blades.

Optional finishing:
- different RAL (extra cost)

Note: the blades will be always black RAL9005 finish.

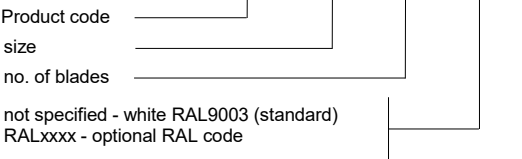
Mounting / Fixing

Mounting on standard or cassette ceiling (inside).
Fixing in plenum box with crossbar **BW** (extra cost).

Optional accessories

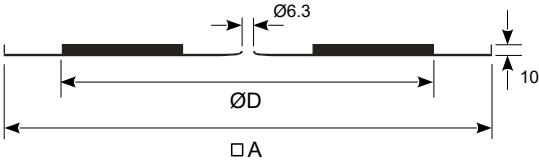
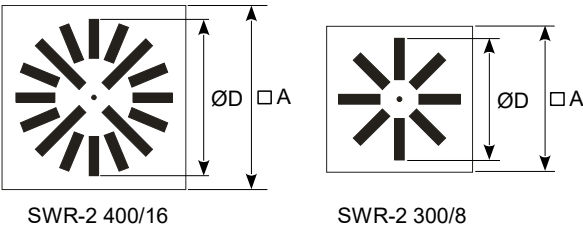
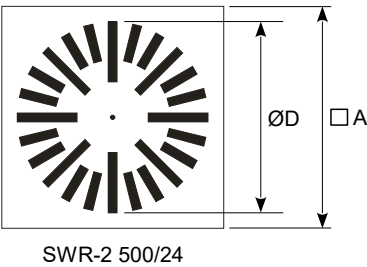
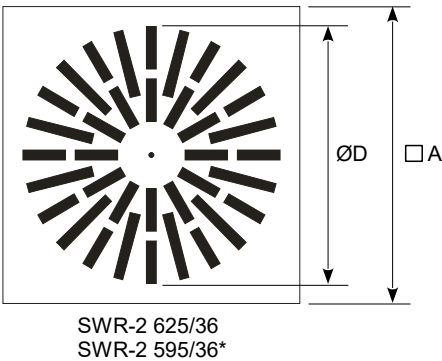
Plenum box – **PL** (extra cost).
Fixing systems.

Order code: **SWR-2** **595** / **36** + *



* optional accessories

Technical data



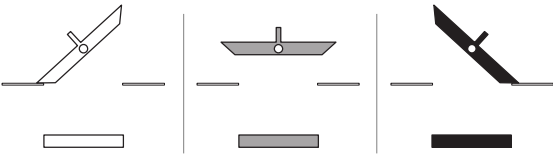
Standard sizes

Dimensions	no. of blades	□A	ØD
625/36	36	620	560
595/36*	36	595	530
500/24	24	498	430
400/16	16	398	340
300/8	8	298	240

*external size AxB 595x595 for cassette ceiling system.

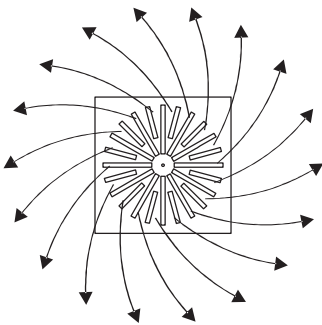
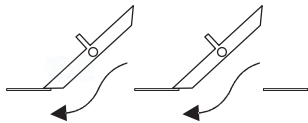
There are no other sizes available.

SWR-2

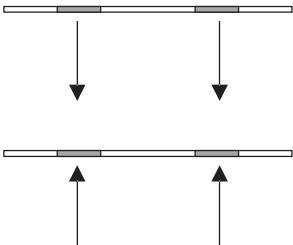
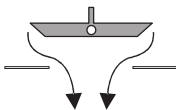


Blade orientation

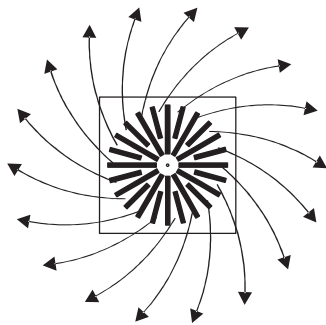
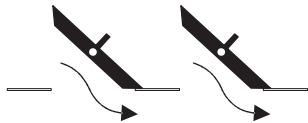
Flow pattern



Uniform horizontal diffusion.
Wide dispersion airflow.
Used for supply.



Vertical diffusion.
Used for supply, exhaust
or recirculation.



Uniform horizontal diffusion.
Wide dispersion airflow.
Used for supply.

Flow pattern



Uniform circular diffusion



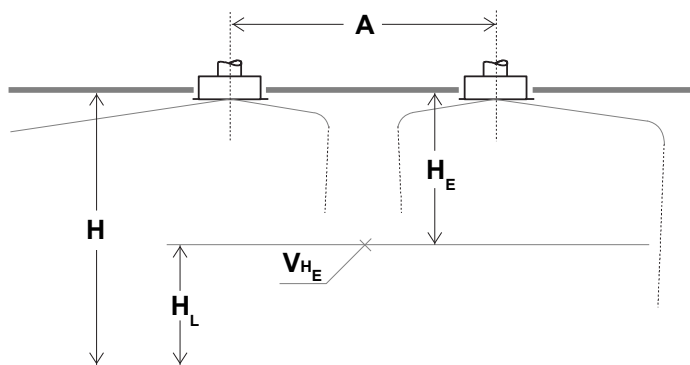
Semicircular diffusion



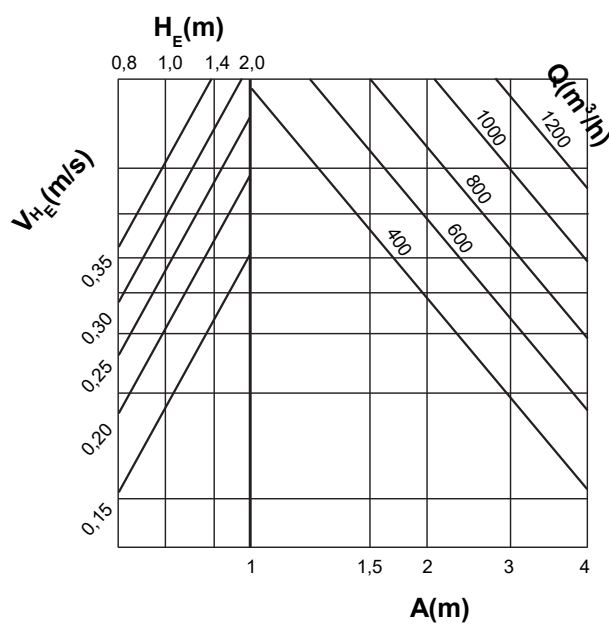
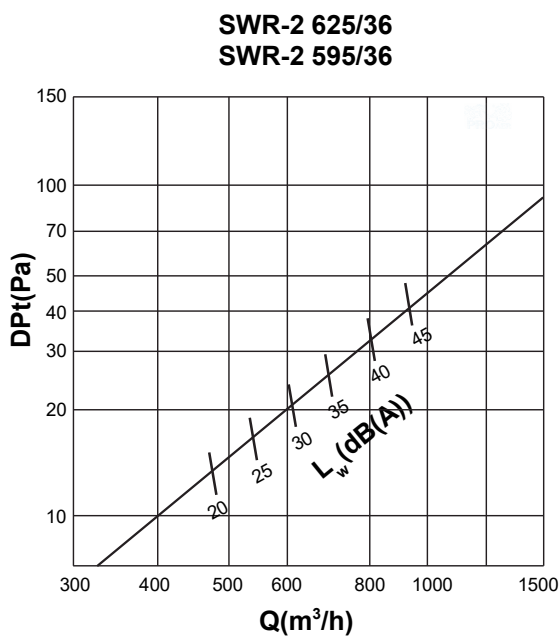
Bidirectional diffusion

SWR-2

Technical data

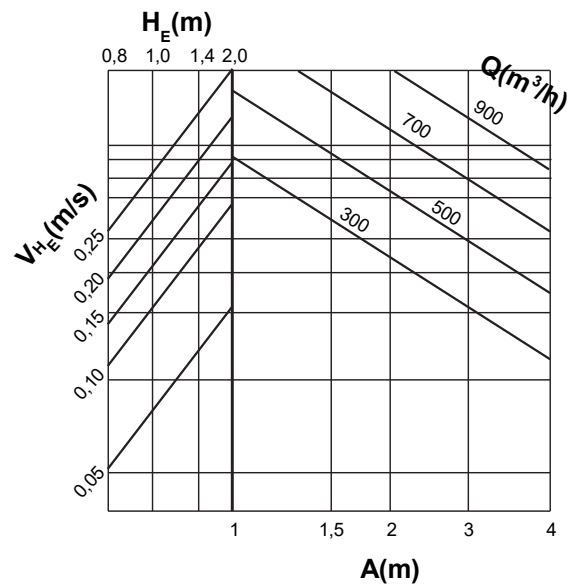
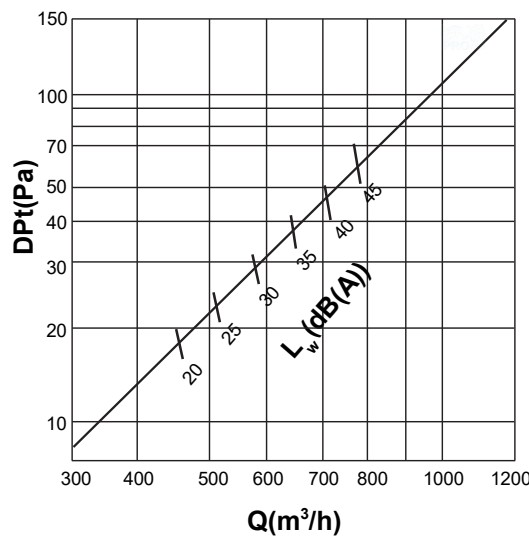


$H = 2,5 \sim 4,0$ m (room height)
 $H_L = 1,8$ m (occupied area)
 $H_E = H - H_L$ (m)
 A = distance (m)
 V_{H_E} = air velocity when entering in zone H_L (m/s)

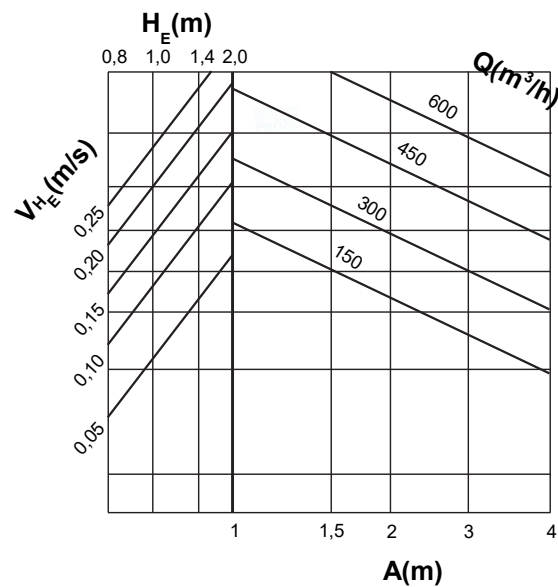
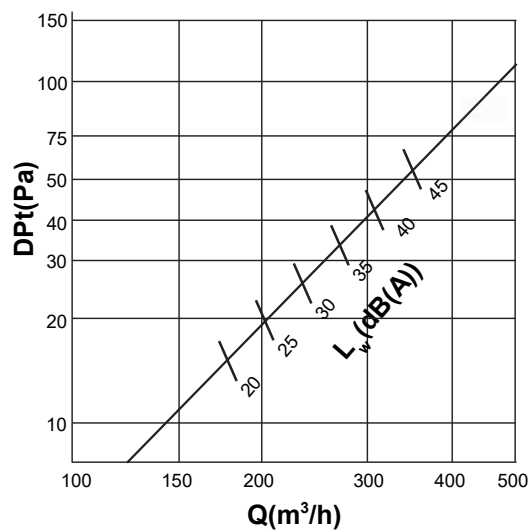


SWR-2

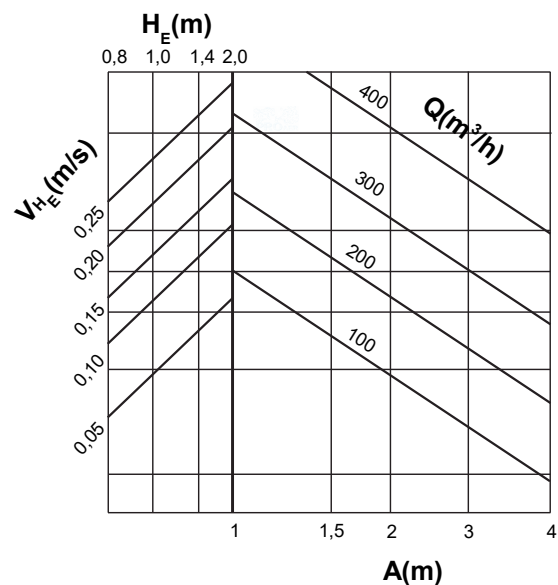
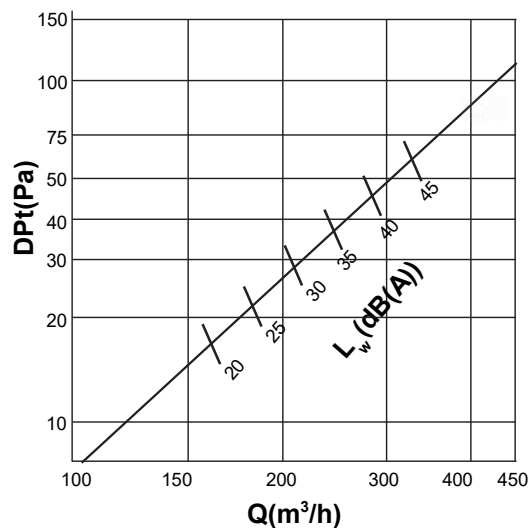
SWR-2 500/24



SWR-2 400/16



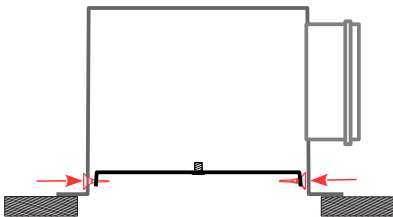
SWR-2 300/8



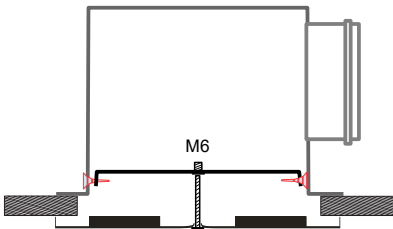
SWR-2

Mounting

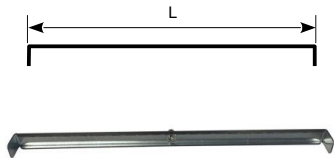
Note: Plenum box **PL** and crossbar **BW** are not included (extra cost).
The crossbars are not delivered mounted in plenum box.



1. Adjust and mount the crossbar **BW** into the plenum box



2. Attach the diffuser with M6x80 screw to the crossbar



Crossbar **BW**

SWR-2	L
625/36	580
595/36	550
500/24	450
400/16	360
300/8	260

SWR-3



Specifications

Square swirl diffuser with adjustable blades.

Used for supply, exhaust or recirculation in ventilation systems.

Material

Steel plate.
Plastic adjustable blades.

Finish

Standard finish: white RAL9003, with black RAL9005 blades.

Optional finishing:
- different RAL (extra cost)

Note: the blades will be always black RAL9005 finish.

Mounting / Fixing

Mounting on standard or cassette ceiling (inside).

Fixing in plenum box with crossbar **BW** (extra cost).

Optional accessories

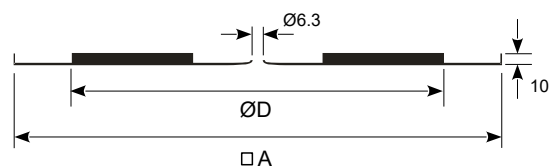
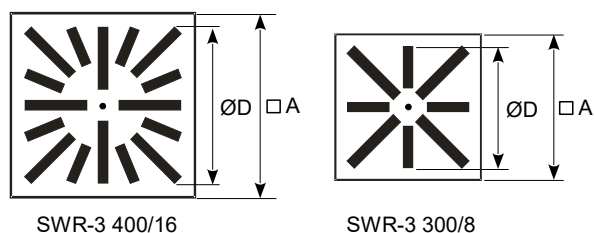
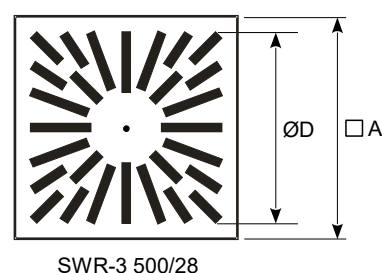
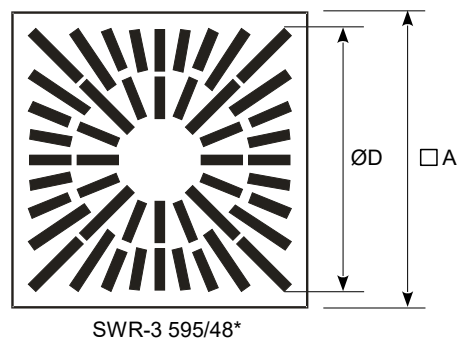
Plenum box – **PL** (extra cost).
Fixing systems.

Order code: **SWR-3 595 / 48** + *

Product code _____
size _____
no. of blades _____
not specified - white RAL9003 (standard)
RALxxxx - optional RAL code

* optional accessories

Technical data



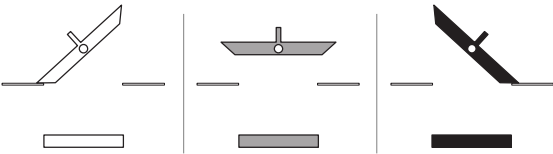
Standard sizes

Dimensions	no. of blades	□A	ØD
595/48*	48	595	530
500/28	28	498	430
400/16	16	398	340
300/8	8	298	240

*external size AxB 595x595 for cassette ceiling system.

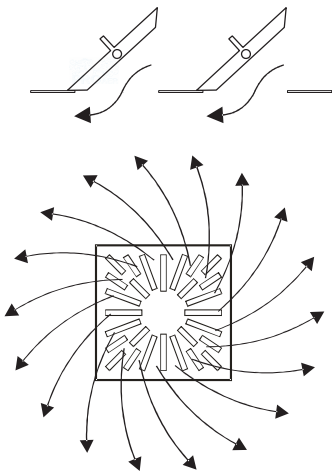
There are no other sizes available.

SWR-3

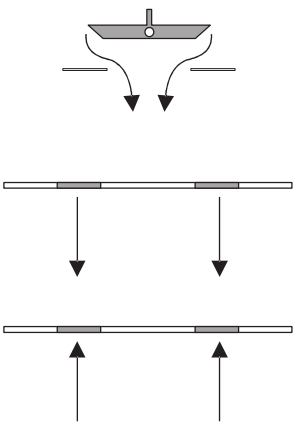


Blade orientation

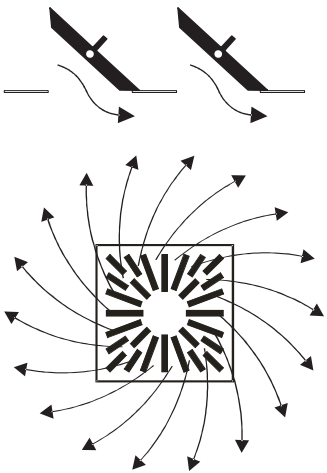
Flow pattern



Uniform horizontal diffusion.
Wide dispersion airflow.
Used for supply.

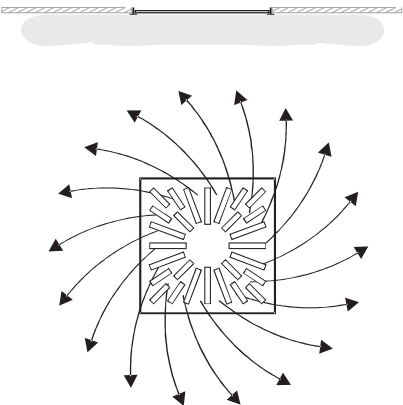


Vertical diffusion.
Used for supply, exhaust
or recirculation.

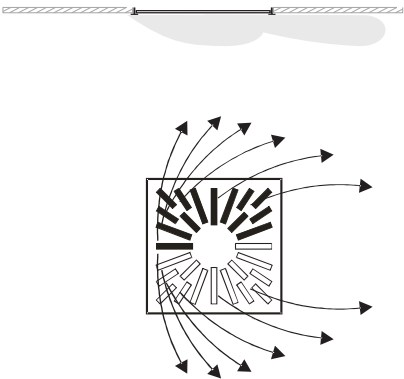


Uniform horizontal diffusion.
Wide dispersion airflow.
Used for supply.

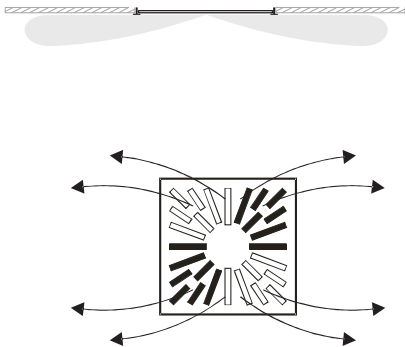
Flow pattern



Uniform circular diffusion



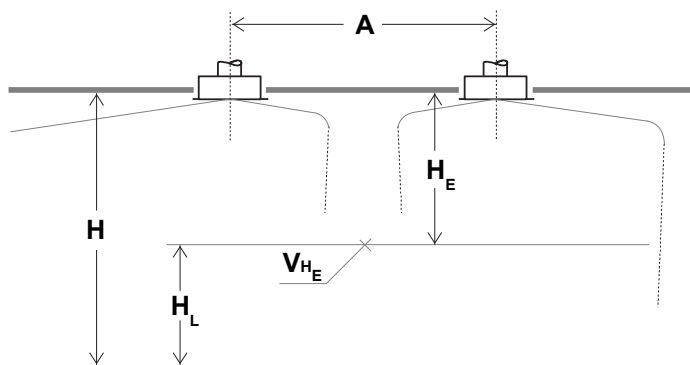
Semicircular diffusion



Bidirectional diffusion

SWR-3

Technical data



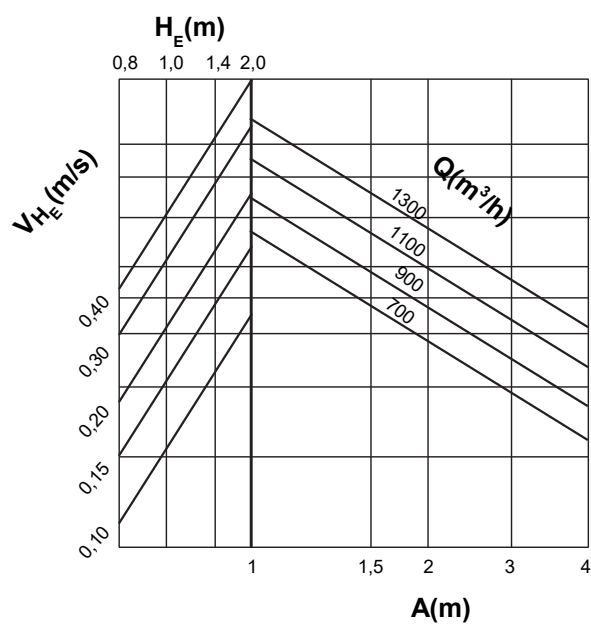
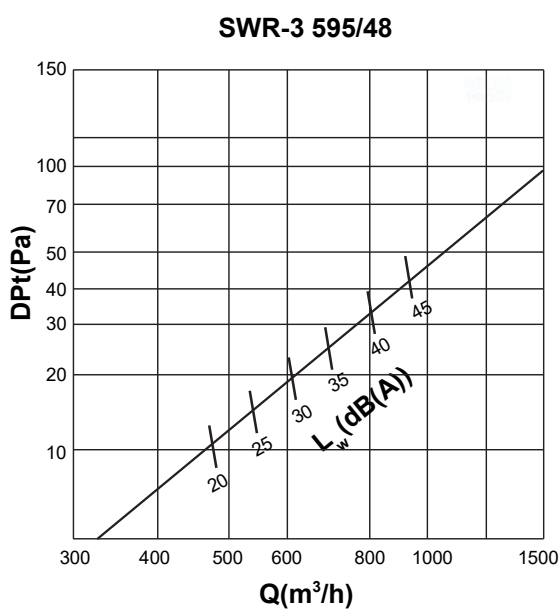
$H = 2,5\sim 4,0$ m (room height)

$H_L = 1,8$ m (occupied area)

$H_E = H - H_L$ (m)

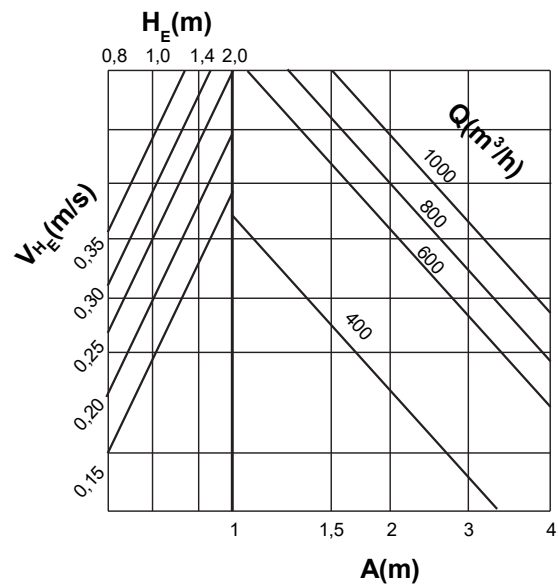
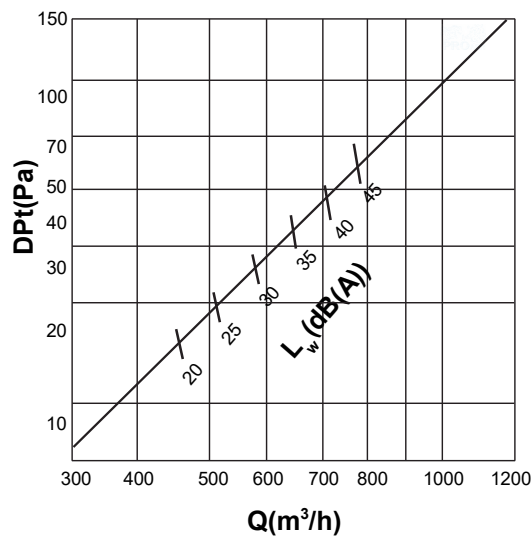
A = distance (m)

V_{H_E} = air velocity when entering in zone H_L (m/s)

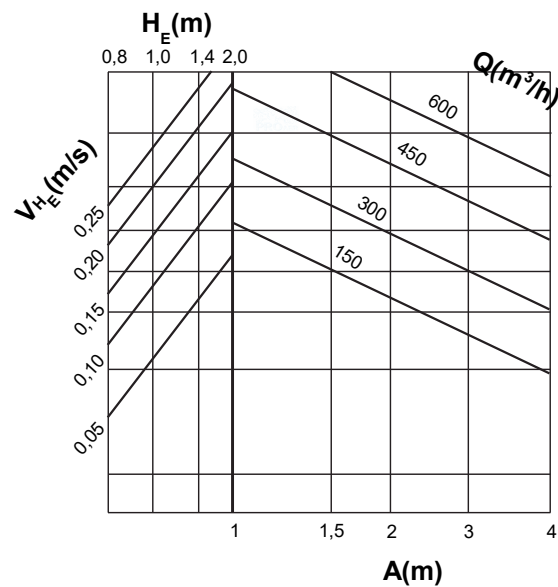
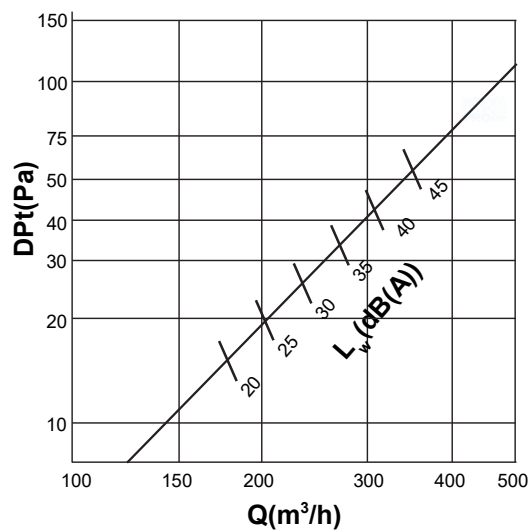


SWR-3

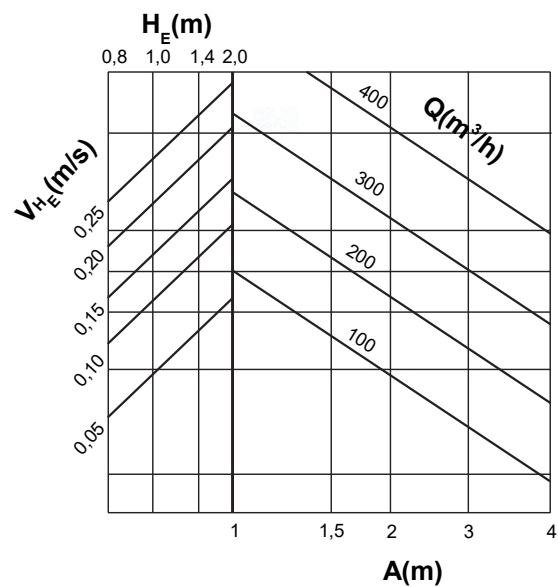
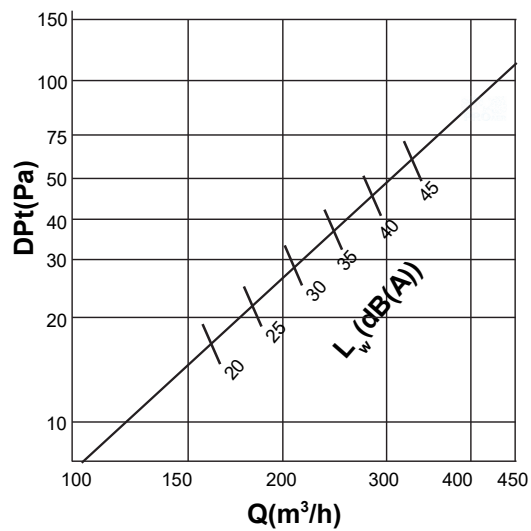
SWR-3 500/28



SWR-3 400/16



SWR-3 300/8



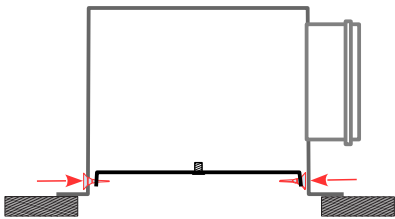
Square swirl diffuser with adjustable blades

Back to Content

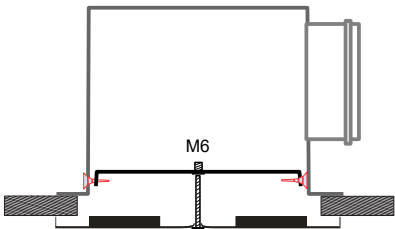
SWR-3

Mounting

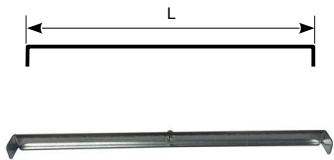
Note: Plenum box **PL** and crossbar **BW** are not included (extra cost).
The crossbars are not delivered mounted in plenum box.



1. Adjust and mount the crossbar **BW** into the plenum box



2. Attach the diffuser with M6x80 screw to the crossbar



Crossbar **BW**

SWR-3	L
595/48	550
500/28	450
400/16	360
300/8	260

CWR-1



Specifications

Circular swirl diffuser with adjustable blades.

Used for supply, exhaust or recirculation in ventilation systems.

Material

Steel plate.
Plastic adjustable blades.

Finish

Standard finish: white RAL9003, with black RAL9005 blades.

Optional finishing:
- different RAL (extra cost)

Note: the blades will be always black RAL9005 finish.

Mounting / Fixing

Monting on ceiling (inside).

Fixing in plenum box with crossbar **BW** (extra cost).

Optional accessories

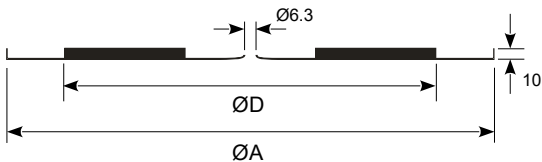
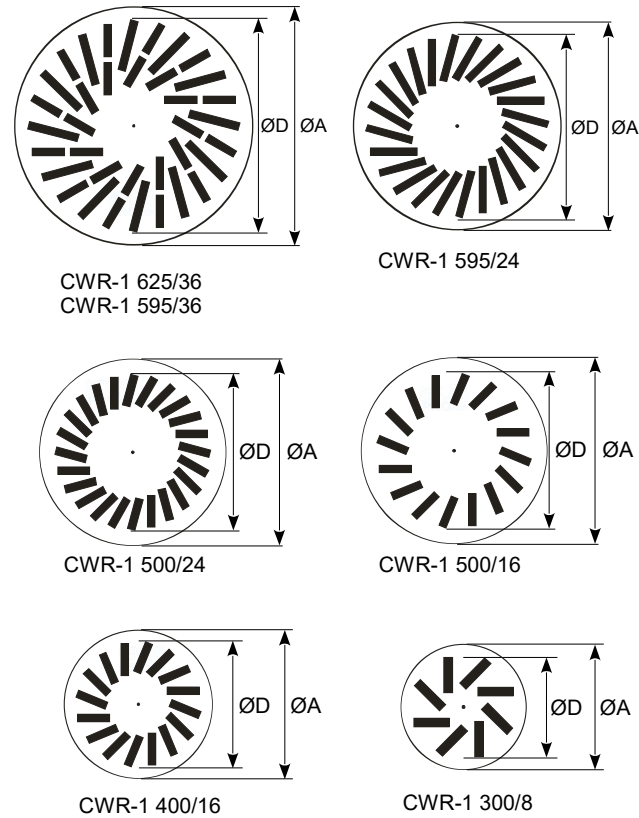
Plenum box – **PL** (extra cost).
Fixing systems.

Order code: **CWR-1** **595 / 24** **+ ***

Product code _____
size _____
no. of blades _____
not specified - white RAL9003 (standard)
RALxxxx - optional RAL code _____

* optional accessories

Technical data

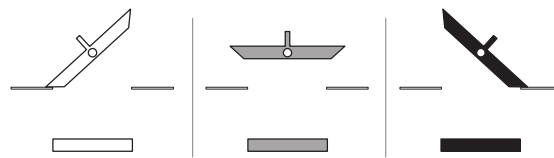


Standard sizes

Dimensions	no. of blades	$\varnothing A$	$\varnothing D$
625/36	36	625	560
595/36	36	595	530
595/24	24	595	530
500/24	24	500	430
500/16	16	500	430
400/16	16	400	340
300/8	8	300	240

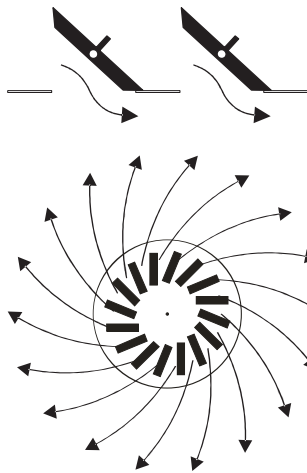
There are no other sizes available.

CWR-1

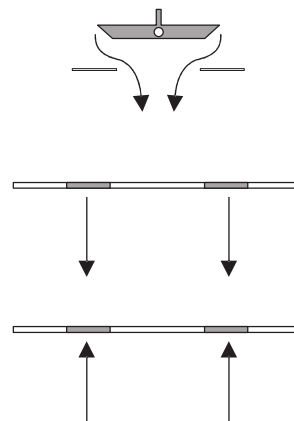


Blade orientation

Flow pattern

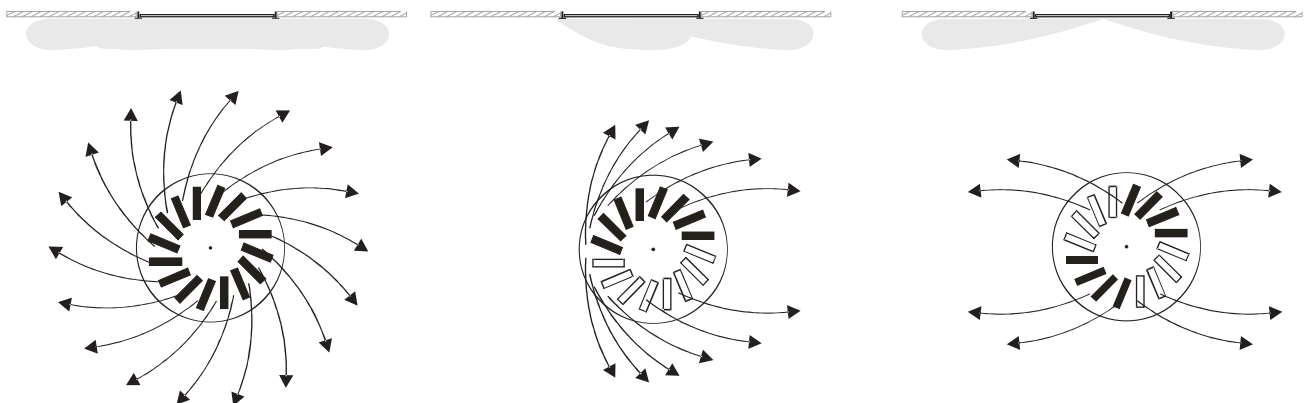


Uniform horizontal diffusion.
Wide dispersion airflow.
Used for supply.



Vertical diffusion.
Used for supply, exhaust
or recirculation.

Flow pattern



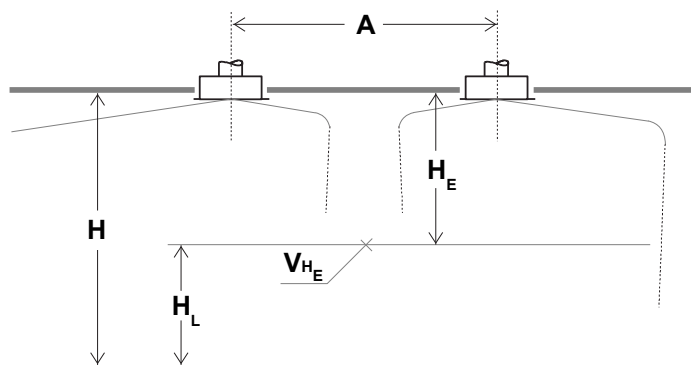
Uniform circular diffusion

Semicircular diffusion

Bidirectional diffusion

CWR-1

Technical data



$H = 2,5\sim 4,0$ m (room height)

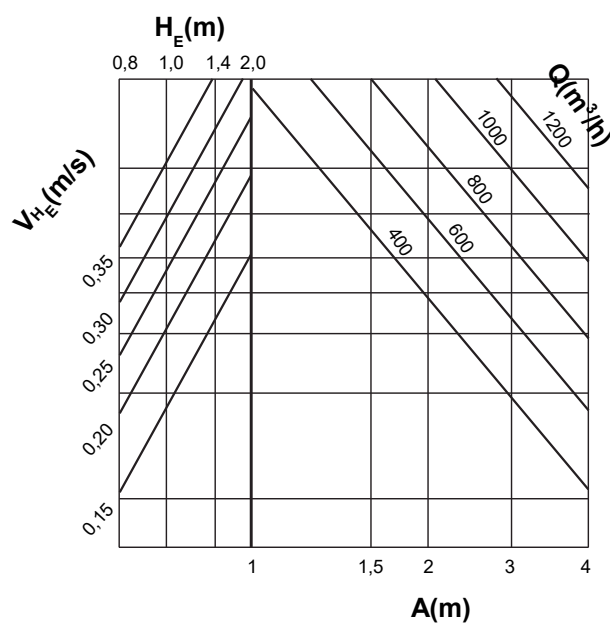
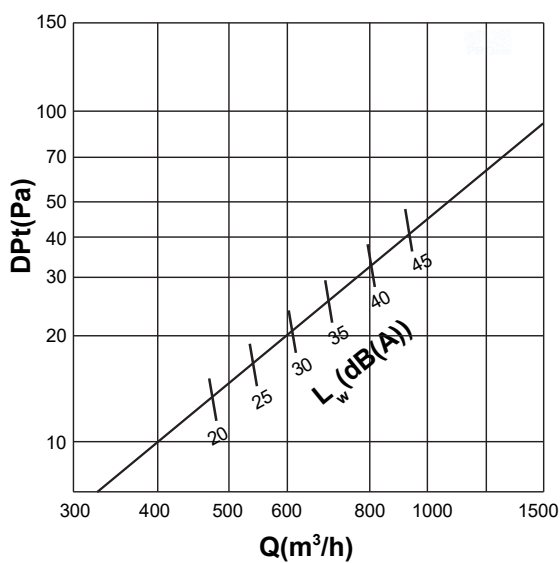
$H_L = 1,8$ m (occupied area)

$H_E = H - H_L$ (m)

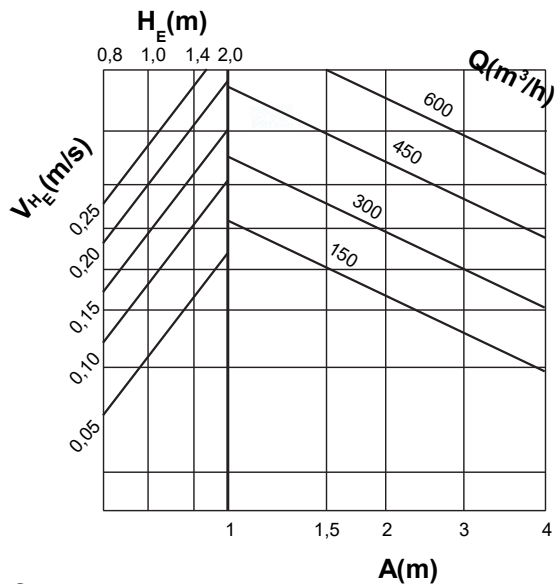
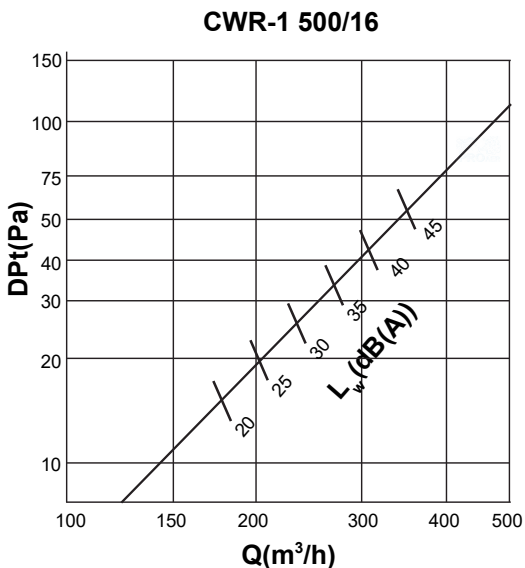
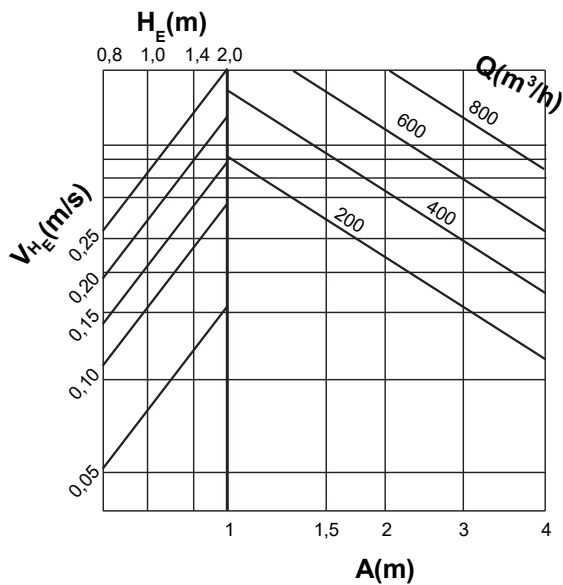
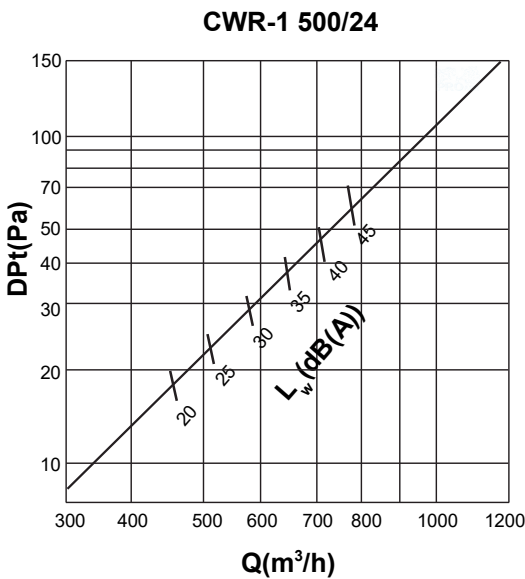
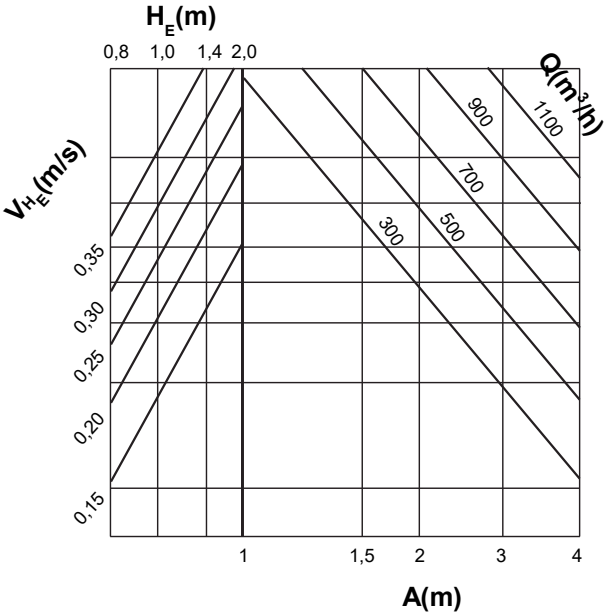
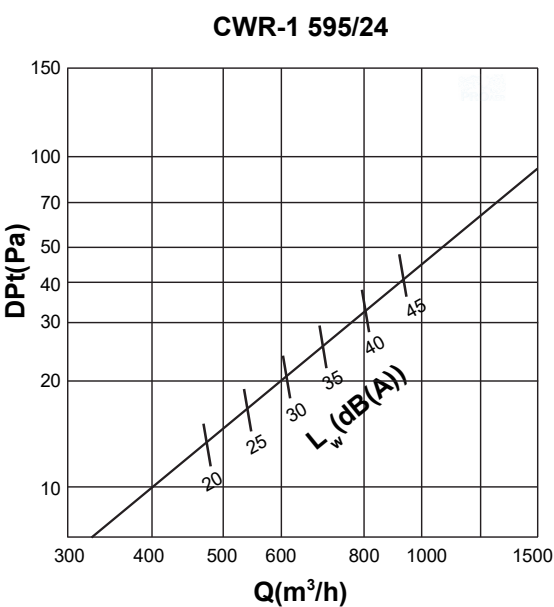
A = distance (m)

V_{H_E} = air velocity when entering in zone H_L (m/s)

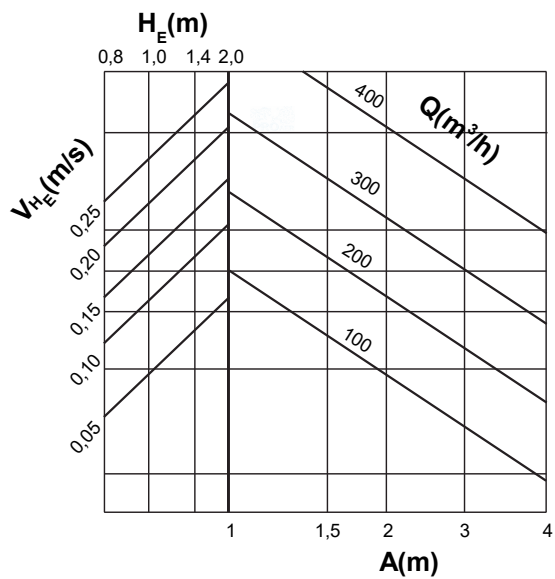
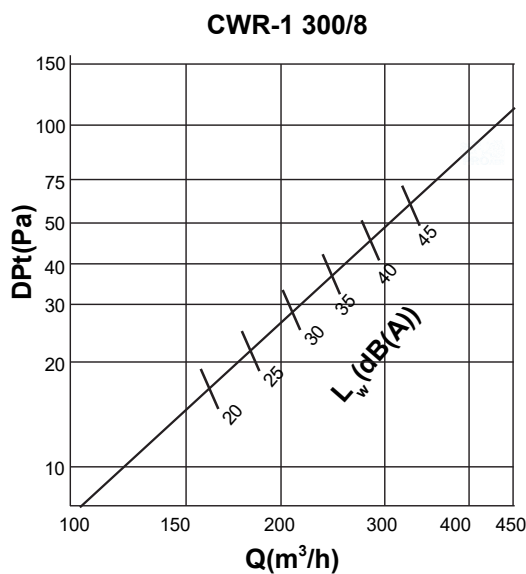
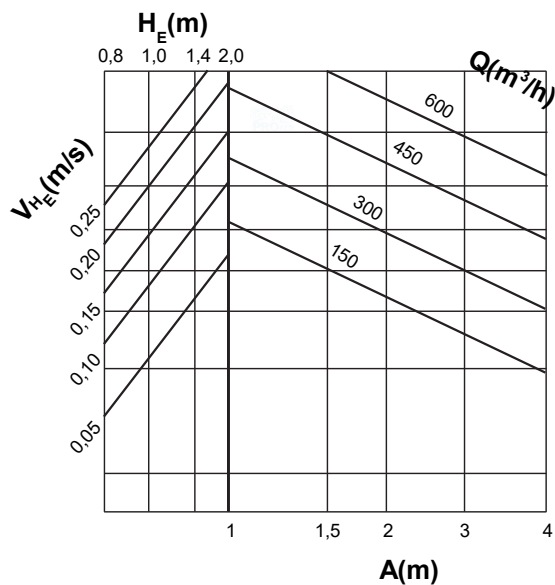
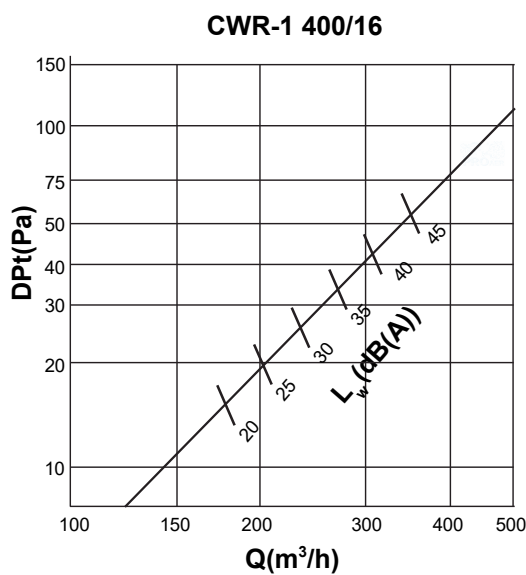
CWR-1 625/36
CWR-1 595/36



CWR-1



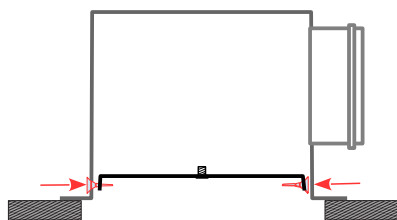
CWR-1



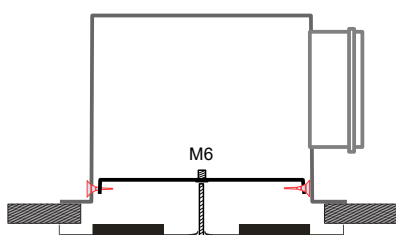
CWR-1

Mounting

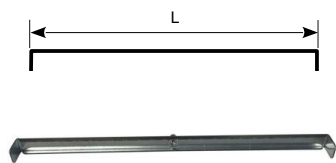
Note: Plenum box **PL** and crossbar **BW** are not included (extra cost).
The crossbars are not delivered mounted in plenum box.



1. Adjust and mount the crossbar **BW** into the plenum box



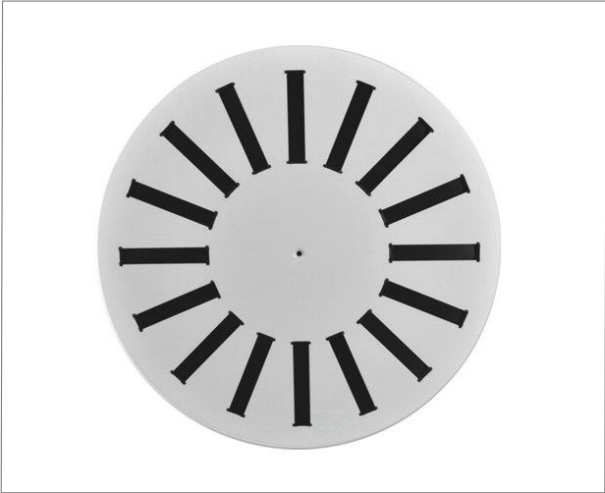
2. Attach the diffuser with M6x80 screw to the crossbar



Crossbar **BW**

CWR-1	L
625	580
595	550
500	450
400	360
300	260

CWR-2



Specifications

Circular swirl diffuser with adjustable blades.
Used for supply, exhaust or recirculation in ventilation systems.

Material

Steel plate.
Plastic adjustable blades.

Finish

Standard finish: white RAL9003, with black RAL9005 blades.

Optional finishing:
- different RAL (extra cost)

Note: the blades will be always black RAL9005 finish.

Mounting / Fixing

Monting on ceiling (inside).
Fixing in plenum box with crossbar **BW** (extra cost).

Optional accessories

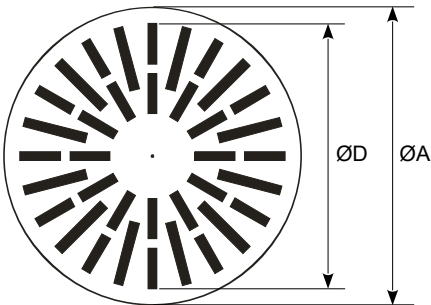
Plenum box – **PL** (extra cost).
Fixing systems.

Order code: **CWR-2** **595 / 36** **+** *****

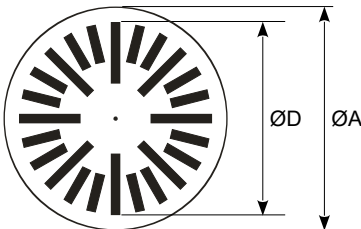
Product code _____
size _____
no. of blades _____
not specified - white RAL9003 (standard)
RALxxxx - optional RAL code

* optional accessories

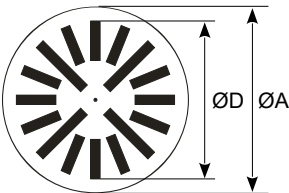
Technical data



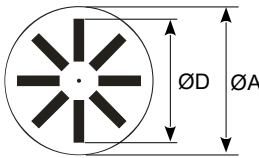
CWR-2 625/36
CWR-2 595/36



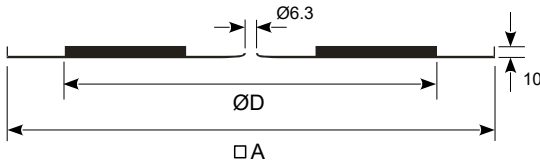
CWR-2 500/24



CWR-2 400/16



CWR-2 300/8

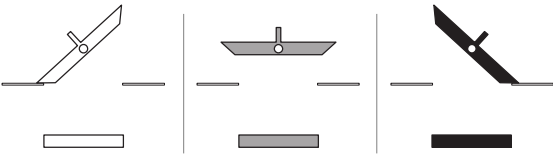


Standard sizes

Dimensions	no. of blades	ØA	ØD
625/36	36	625	560
595/36	36	595	530
500/24	24	500	430
400/16	16	400	340
300/8	8	300	240

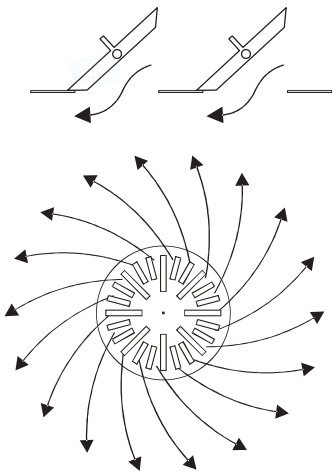
There are no other sizes available.

CWR-2

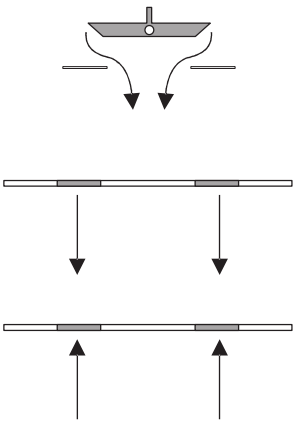


Blade orientation

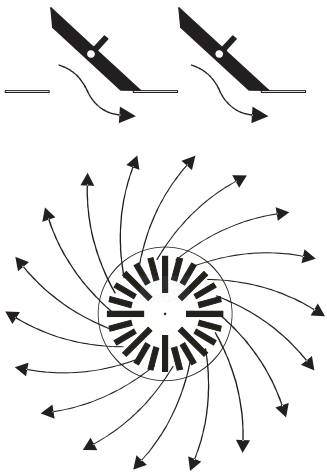
Flow pattern



Uniform horizontal diffusion.
Wide dispersion airflow.
Used for supply.



Vertical diffusion.
Used for supply, exhaust
or recirculation.



Uniform horizontal diffusion.
Wide dispersion airflow.
Used for supply.

Flow pattern



Uniform circular diffusion



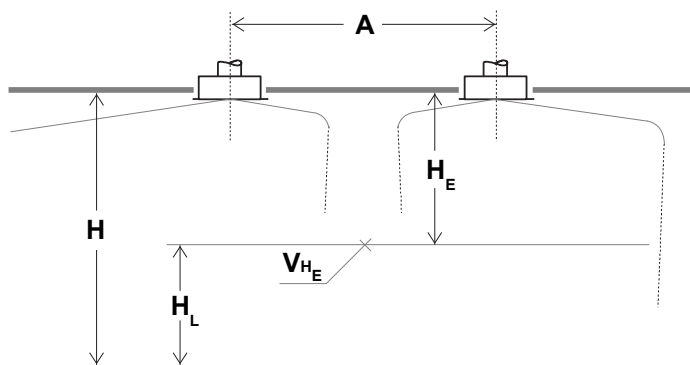
Semicircular diffusion



Bidirectional diffusion

CWR-2

Technical data



$H = 2,5\sim 4,0$ m (room height)

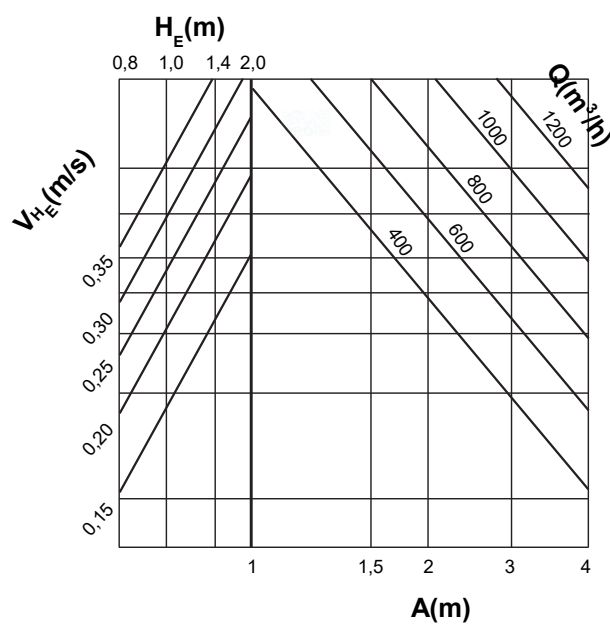
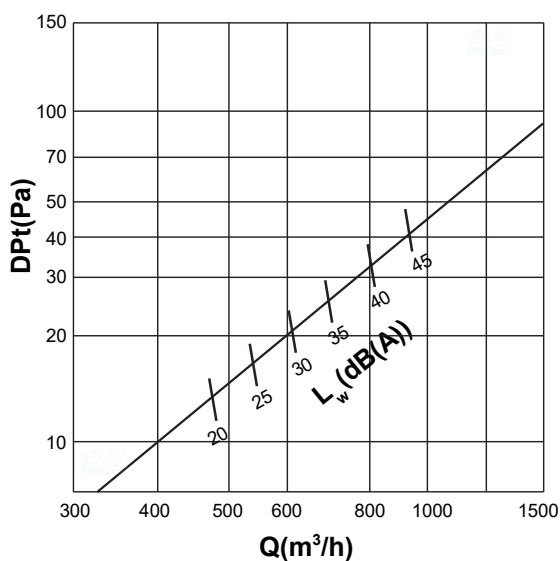
$H_L = 1,8$ m (occupied area)

$H_E = H - H_L$ (m)

A = distance (m)

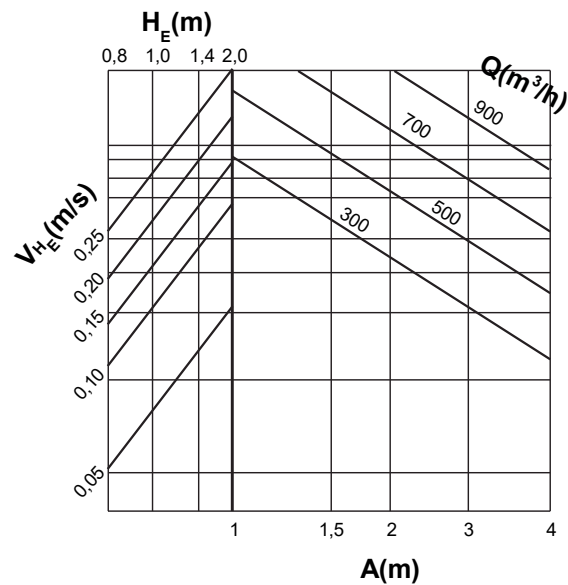
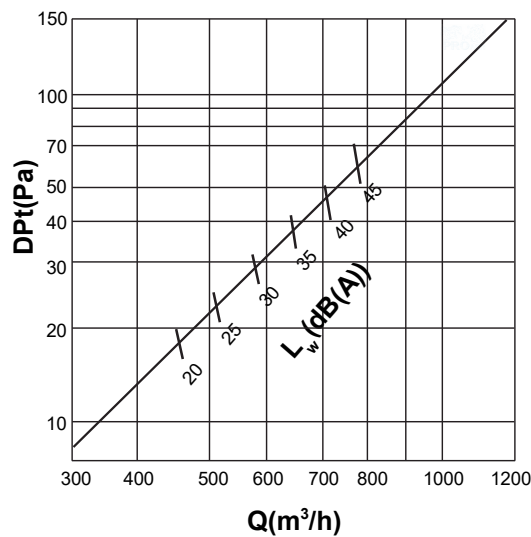
V_{H_E} = air velocity when entering in zone H_L (m/s)

CWR-2 625/36
CWR-2 595/36

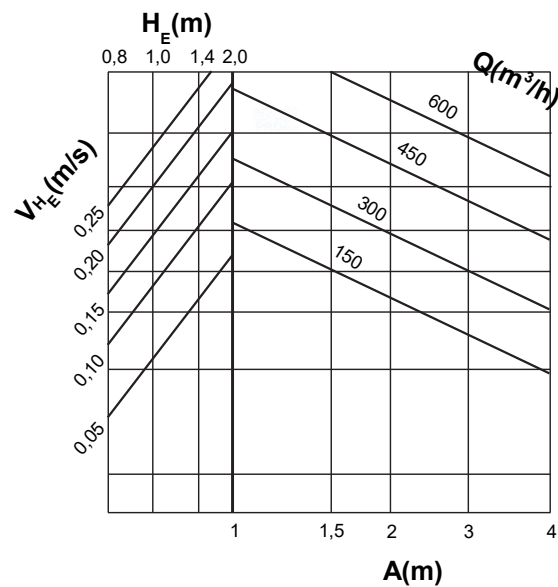
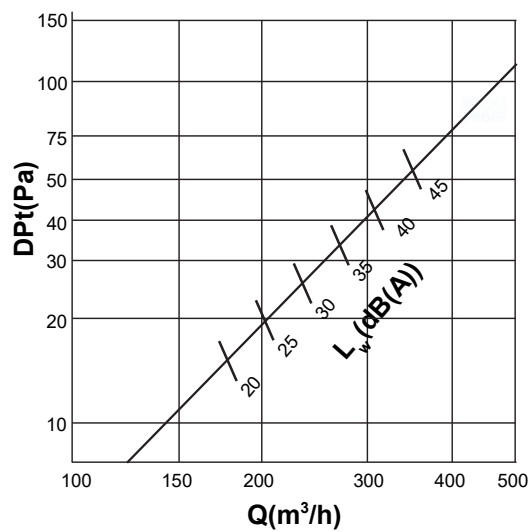


CWR-2

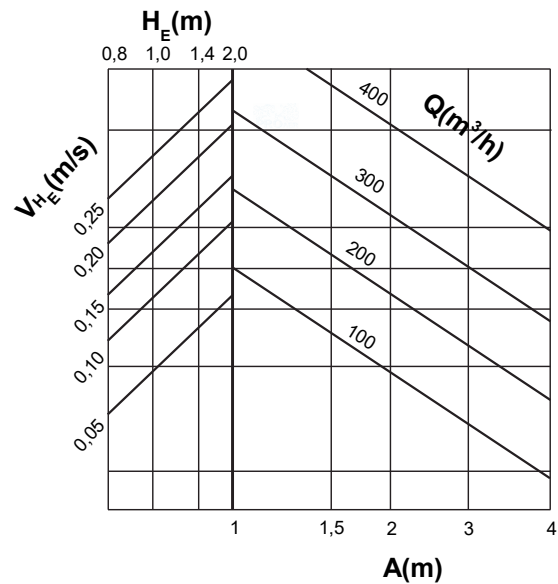
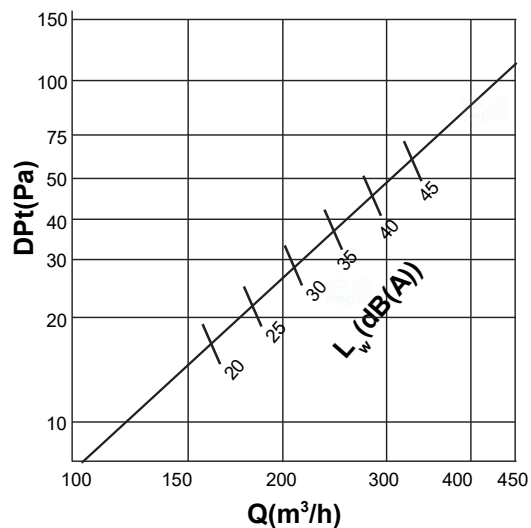
CWR-2 500/24



CWR-2 400/16

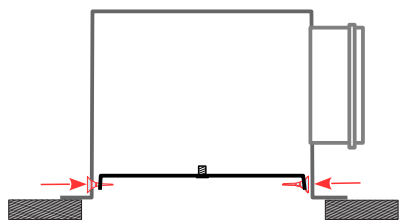


CWR-2 300/8

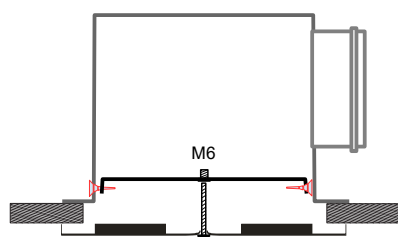


Mounting

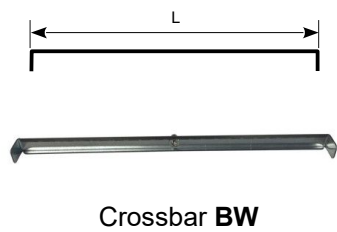
Note: Plenum box **PL** and crossbar **BW** are not included (extra cost).
The crossbars are not delivered mounted in plenum box.



1. Adjust and mount the crossbar **BW** into the plenum box



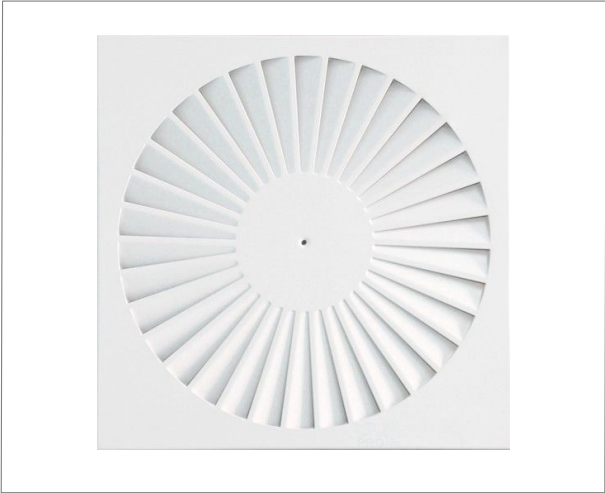
2. Attach the diffuser with M6x80 screw to the crossbar



Crossbar **BW**

CWR-2	L
625	580
595	550
500	450
400	360
300	260

SWA-1



Specifications

Square swirl diffuser with 24 radial fixed blades.
Used for supply, exhaust or recirculation in ventilation systems.

Material

Steel plate.

Finish

Standard finish: white RAL9003.
Optional finishing: different RAL (extra cost).

Mounting / Fixing

Mounting on standard or cassette ceiling (inside).
Fixing in plenum box with crossbar **BW** (extra cost).

Optional accessories

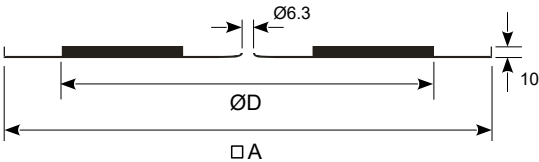
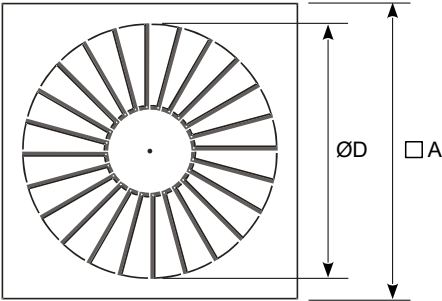
Plenum box – **PL** (extra cost).
Fixing systems.

Order code: **SWA-1** **595** + *

Product code	_____	_____	_____
size	_____	_____	_____
not specified - white RAL9003 (standard)	_____	_____	_____
RALxxxx - optional RAL code	_____	_____	_____

* optional accessories

Technical data



Standard sizes

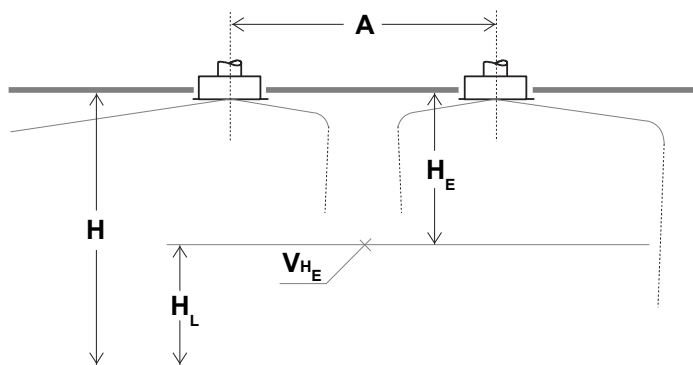
Dimensions	no. of blades	□A	ØD
625	24	620	560
595*	24	595	530
500	24	498	430
400	24	398	340
300	24	298	240

*external size AxB 595x595 for cassette ceiling system.

There are no other sizes available.

SWA-1

Technical data



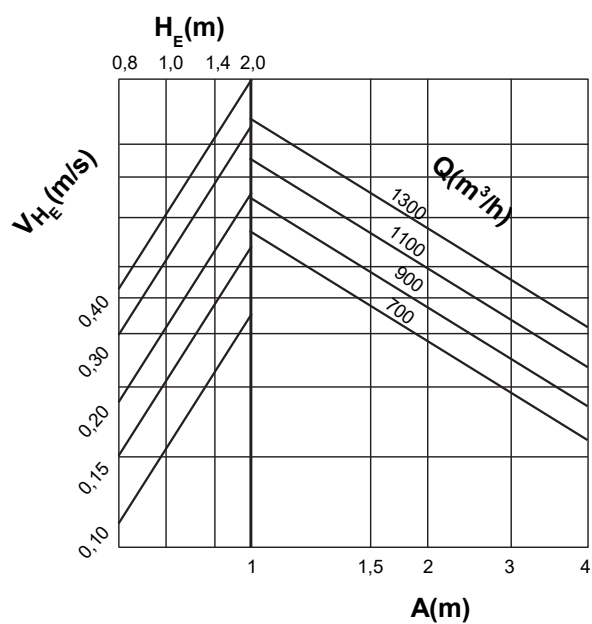
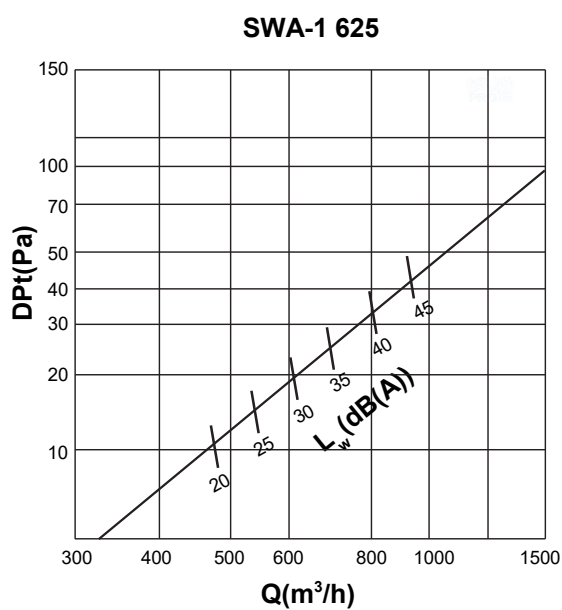
$H = 2,5 \sim 4,0$ m (room height)

$H_L = 1,8$ m (occupied area)

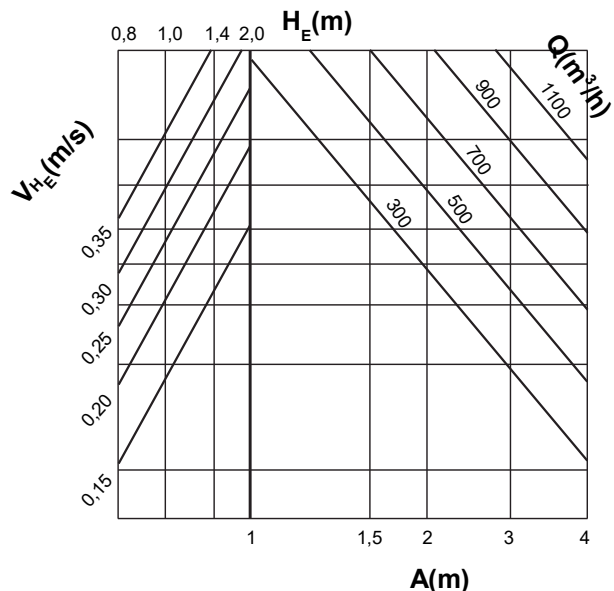
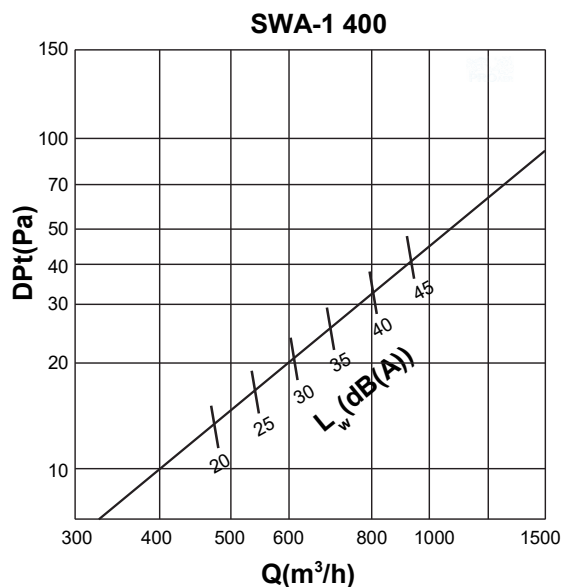
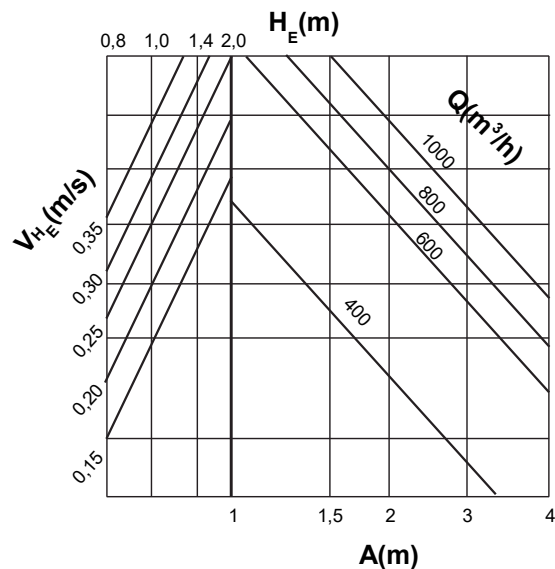
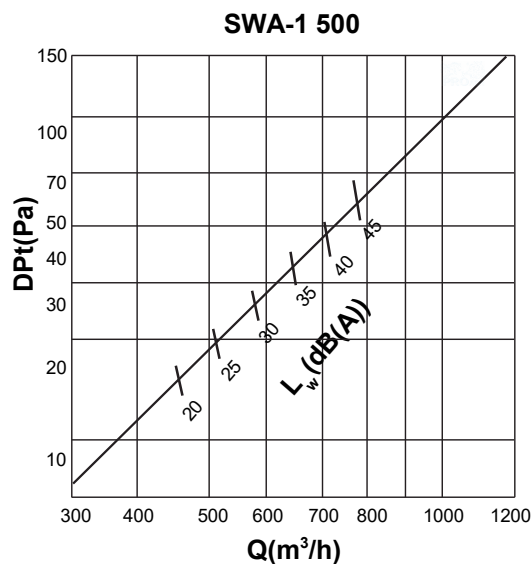
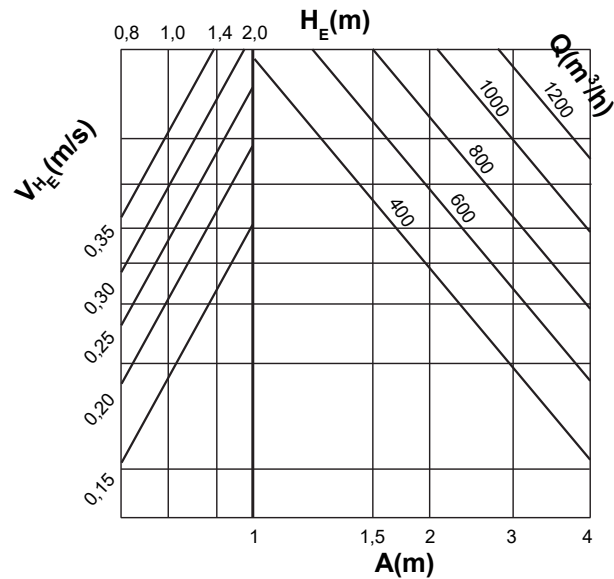
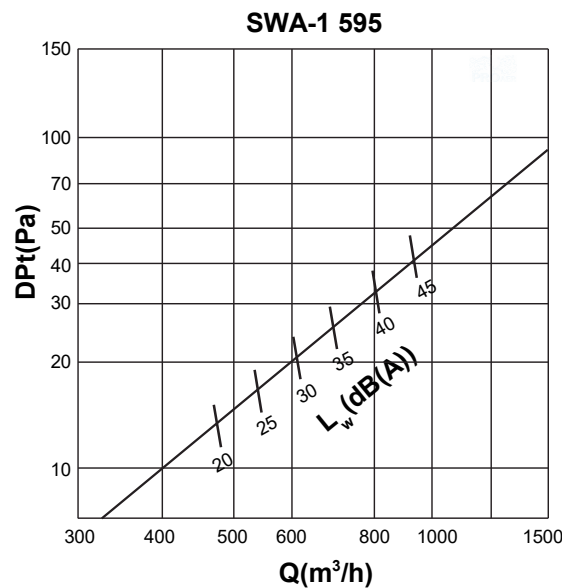
$H_E = H - H_L$ (m)

A = distance (m)

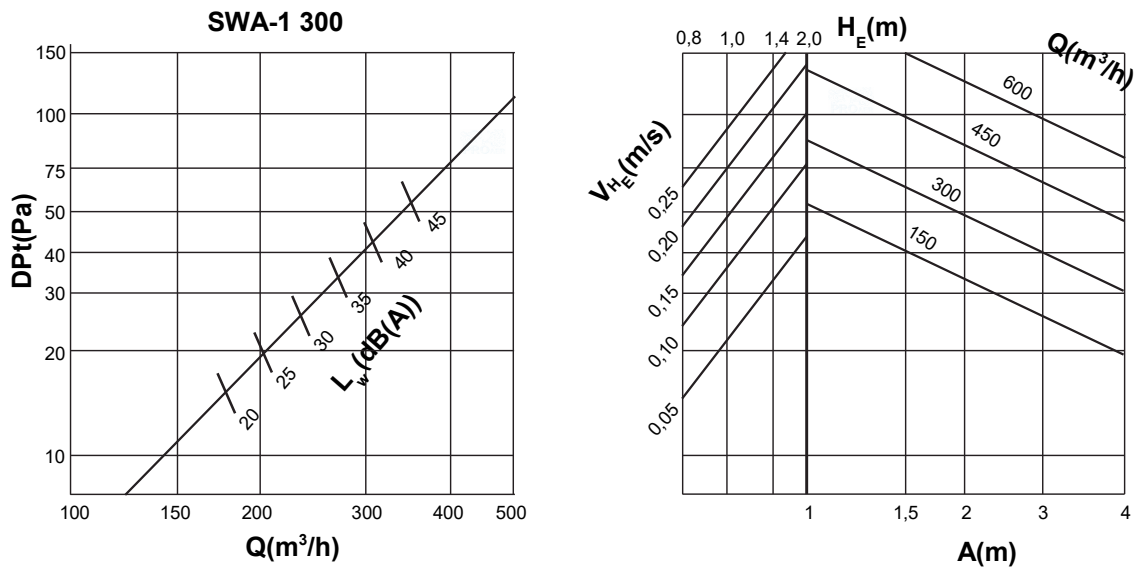
V_{H_E} = air velocity when entering in zone H_L (m/s)



SWA-1

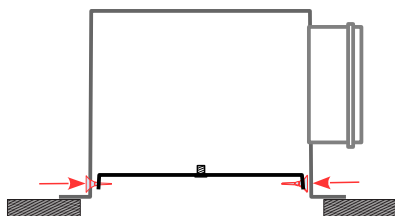


SWA-1

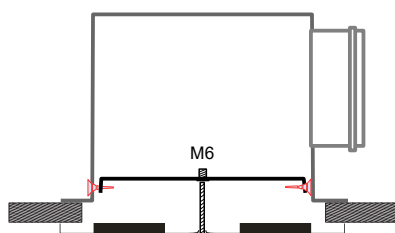


Montaj

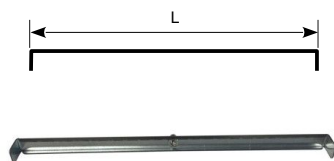
Nota: Plenum-ul de racord **PL** si brida de fixare **BW** nu sunt incluse (cost suplimentar)
Chiar in cazul in care plenumul de racord se furnizeaza impreuna cu difuzorul elicoidal,
brida de fixare NU se livreaza montata in plenum. Acest lucru se face pe santier.



1. Ajustati si fixati brida **BW** in plenum



2. Fixati difuzorul elicoidal prin insurubare (surub M6x80) si aplicati dopul de mascare.



Crossbar **BW**

SWA-1	L
625	580
595	550
500	450
400	360
300	260

SWA-2



Specifications

Square swirl diffuser with 24 radial fixed blades.
Used for supply, exhaust or recirculation in ventilation systems.

Material

Steel plate.

Finish

Standard finish: white RAL9003.
Optional finishing: different RAL (extra cost).

Mounting / Fixing

Mounting on standard or cassette ceiling (inside).
Fixing in plenum box with crossbar **BW** (extra cost).

Optional accessories

Plenum box – **PL** (extra cost).
Fixing systems.

Order code: **SWA-2** **595** + *

Product code

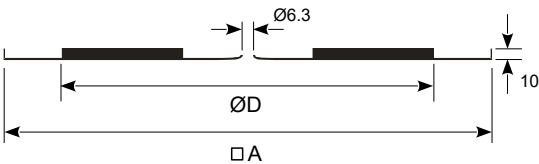
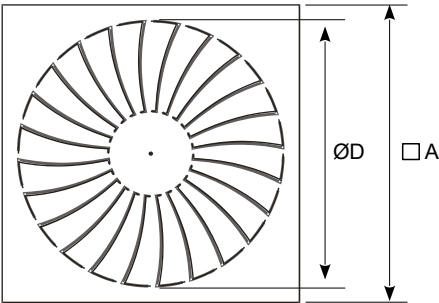
size

not specified - white RAL9003 (standard)

RALxxxx - optional RAL code

* optional accessories

Technical data



Standard sizes

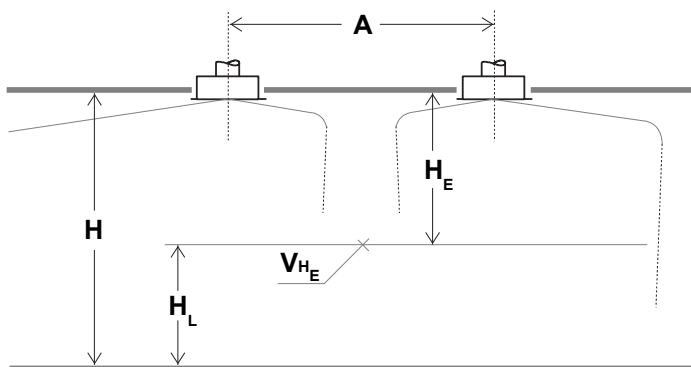
Dimensions	no. of blades	□A	ØD
625	24	620	560
595*	24	595	530
500	24	498	430
400	24	398	340
300	24	298	240

*external size AxB 595x595 for cassette ceiling system.

There are no other sizes available.

SWA-2

Technical data



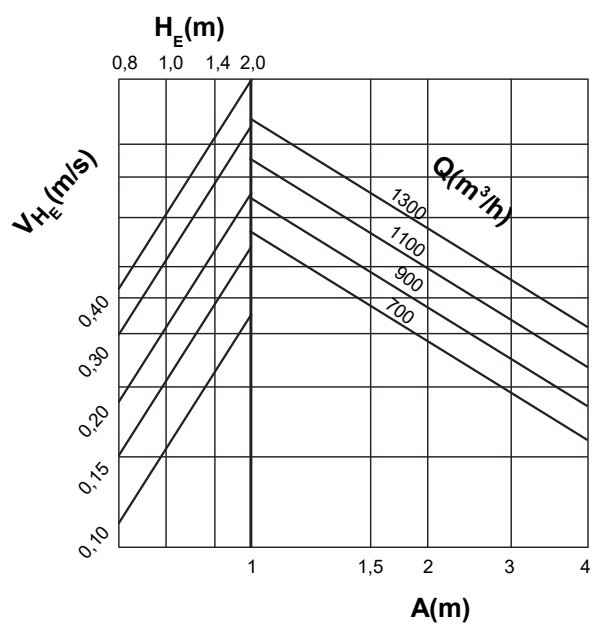
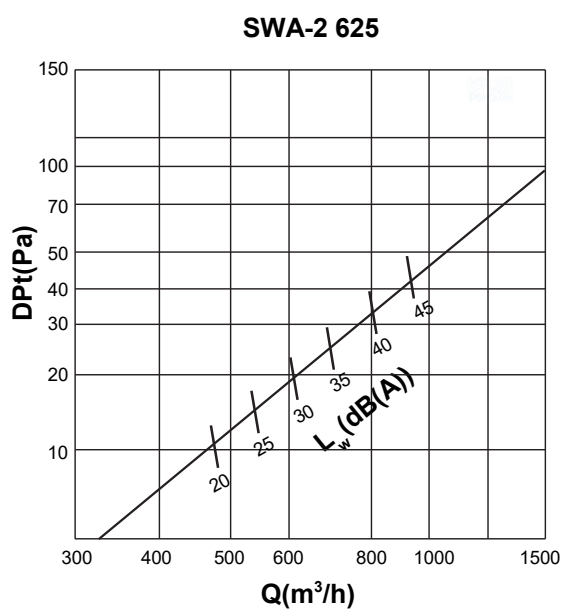
$H = 2,5 \sim 4,0$ m (room height)

$H_L = 1,8$ m (occupied area)

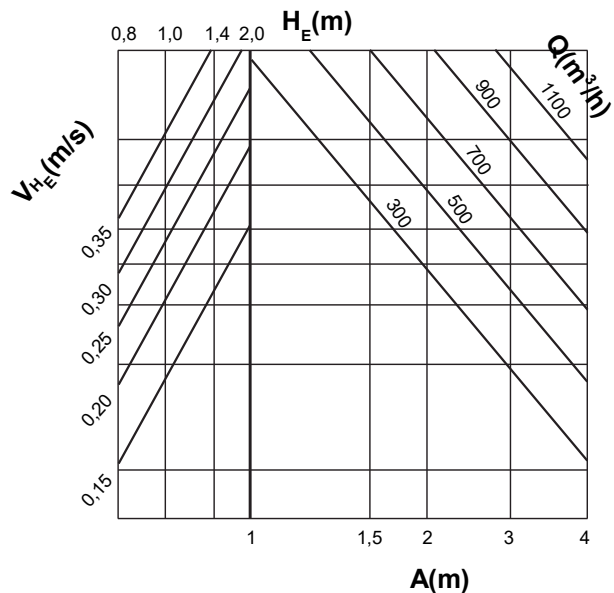
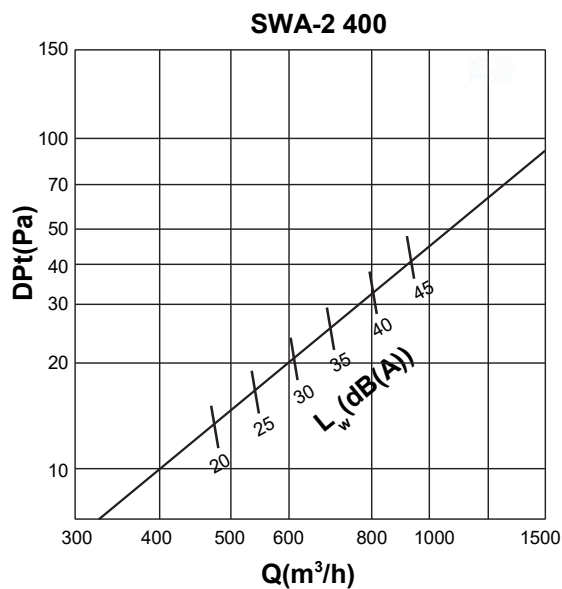
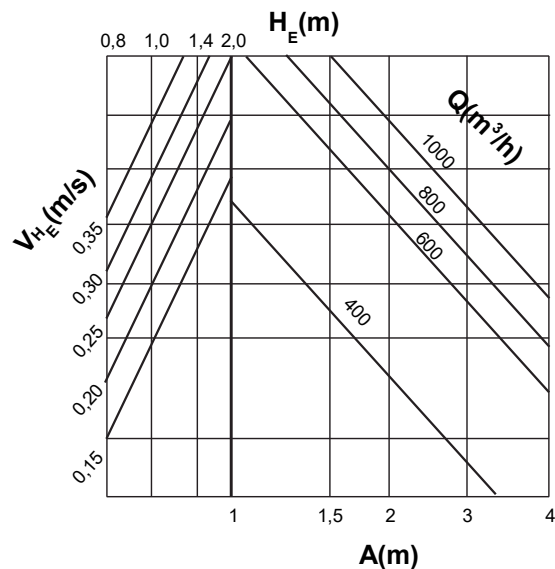
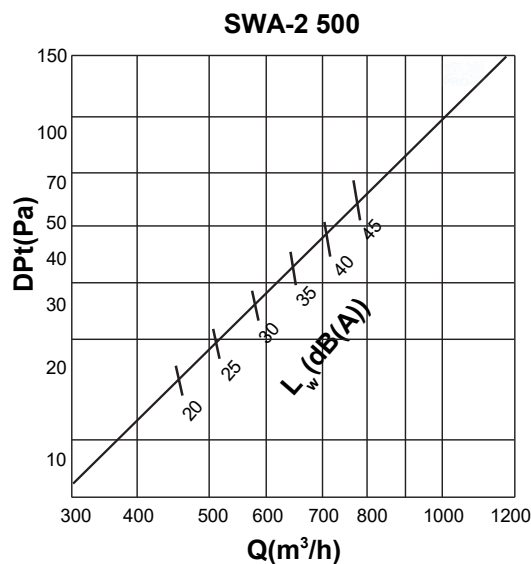
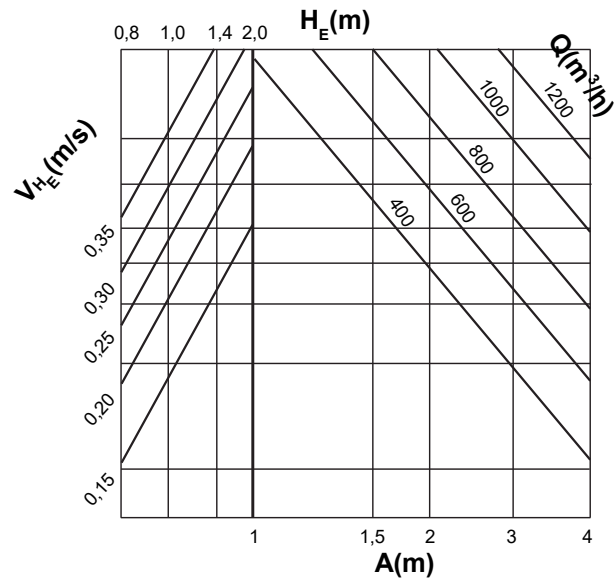
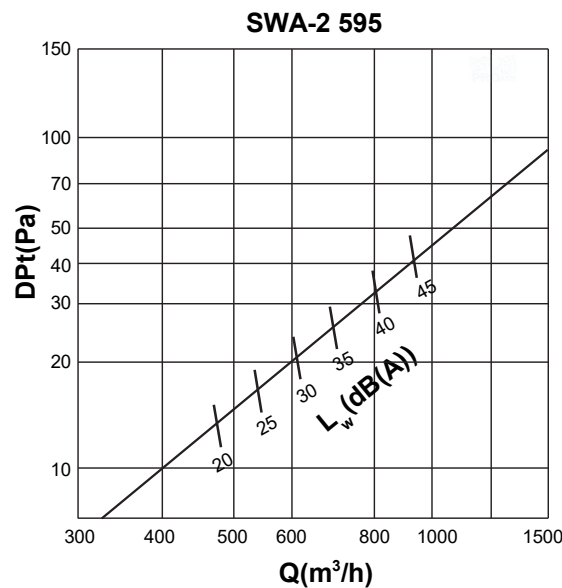
$H_E = H - H_L$ (m)

A = distance (m)

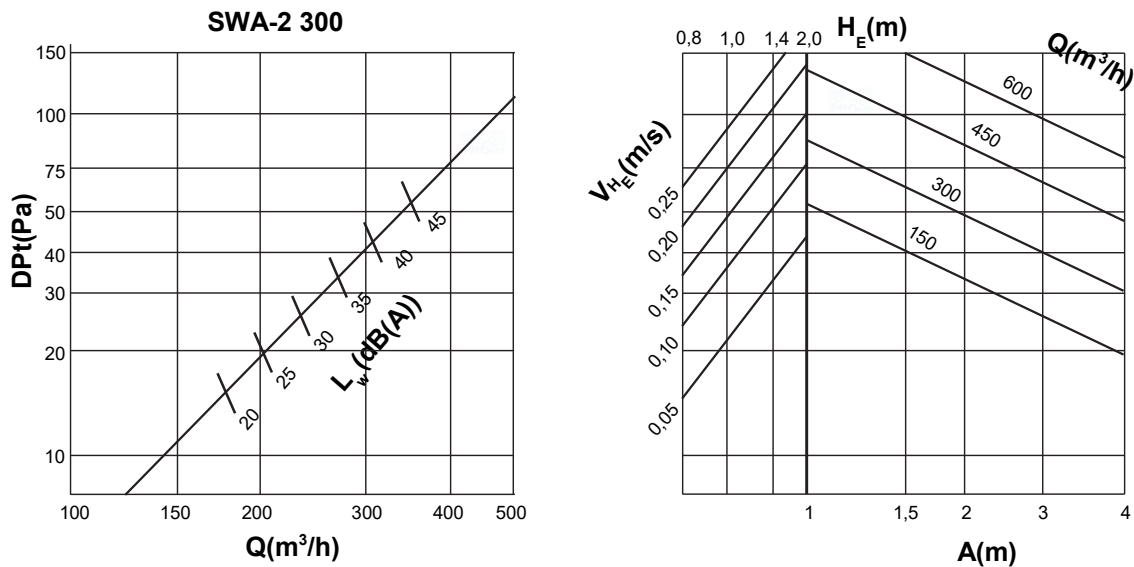
V_{H_E} = air velocity when entering in zone H_L (m/s)



SWA-2

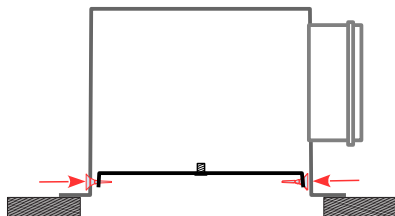


SWA-2

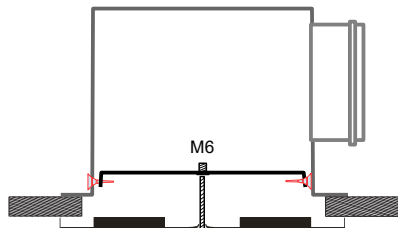


Mounting

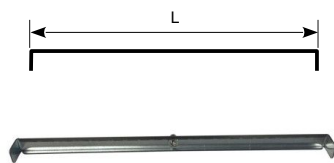
Note: Plenum box **PL** and crossbar **BW** are not included (extra cost).
The crossbars are not delivered mounted in plenum box.



1. Adjust and mount the crossbar **BW** into the plenum box



2. Attach the diffuser with M6x80 screw to the crossbar



Crossbar **BW**

SWA-2	L
625	580
595	550
500	450
400	360
300	260

CWA-1



Specifications

Circular swirl diffuser with 24 radial fixed blades.
Used for supply, exhaust or recirculation in ventilation systems.

Material

Steel plate.

Finish

Standard finish: white RAL9003.
Optional finishing: different RAL (extra cost).

Mounting / Fixing

Mounting on standard or cassette ceiling (inside).
Fixing in plenum box with crossbar **BW** (extra cost).

Optional accessories

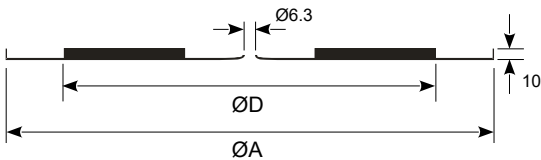
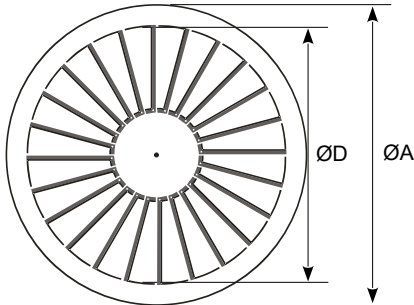
Plenum box – **PSW** (extra cost).
Fixing systems.

Order code: **CWA-1** **595** **+** *****

Product code	_____	_____	_____
size	_____	_____	_____
not specified - white RAL9003 (standard)			
RALxxxx - optional RAL code			

* optional accessories

Technical data



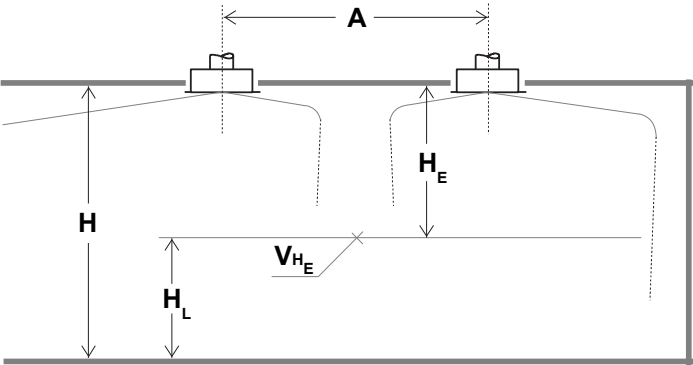
Standard sizes

Dimensions	no. of blades	ØA	ØD
625	24	625	560
595	24	595	530
500	24	500	430
400	24	400	340
300	24	300	240

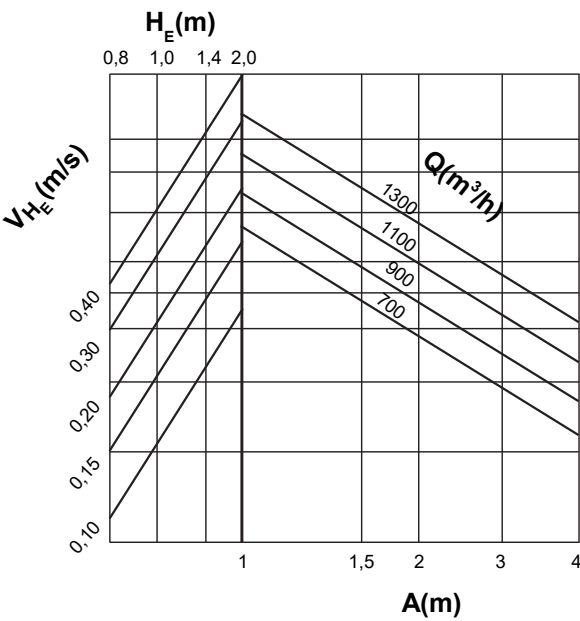
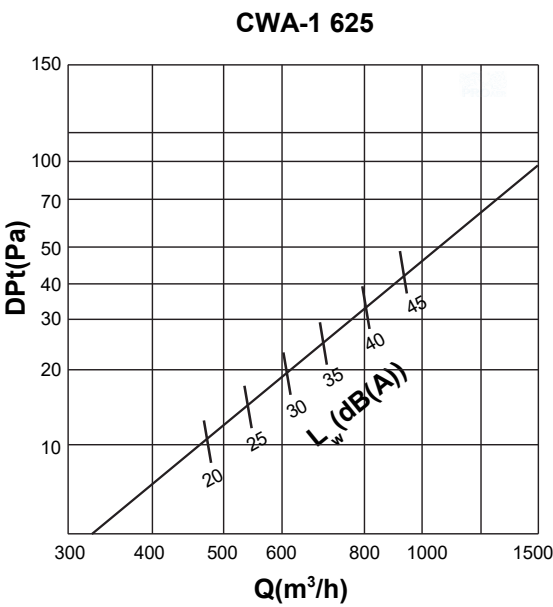
There are no other sizes available.

CWA-1

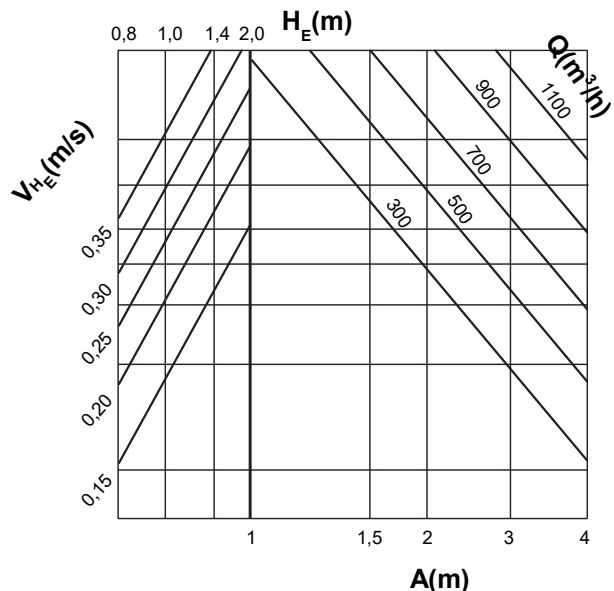
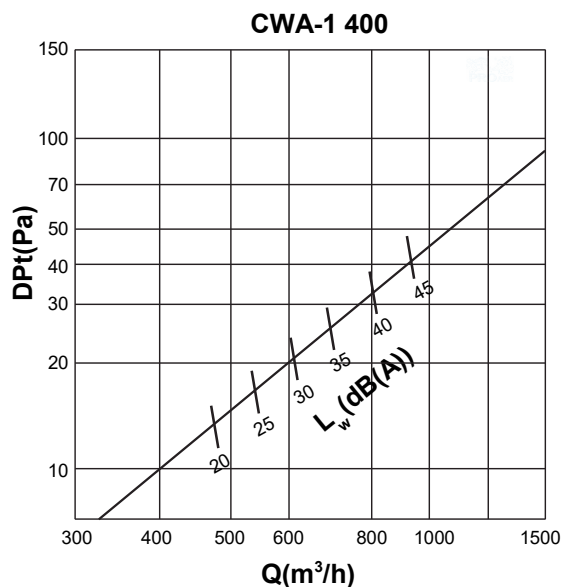
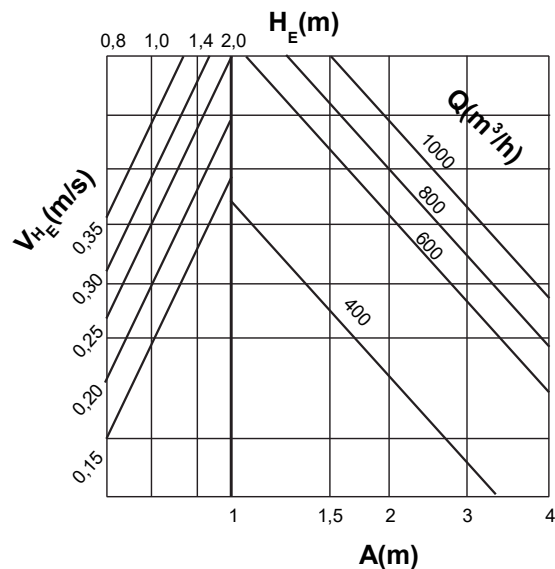
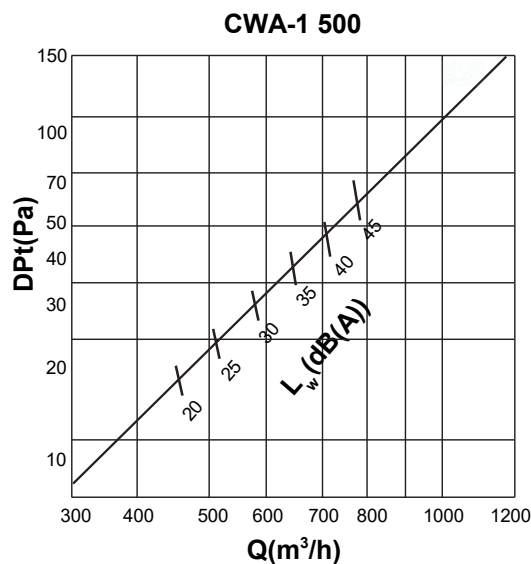
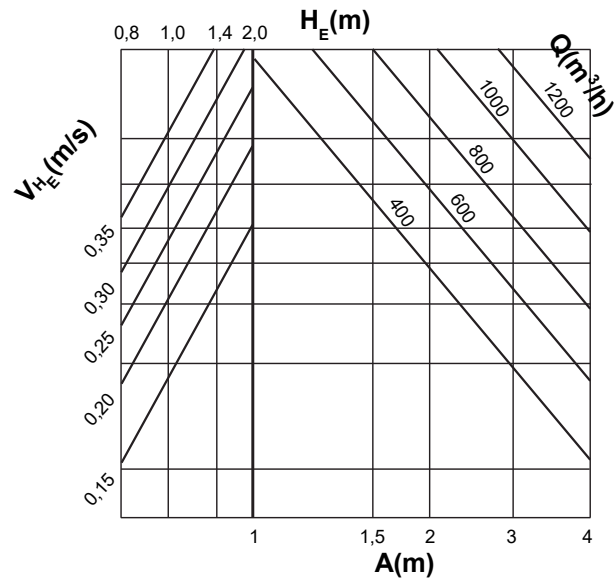
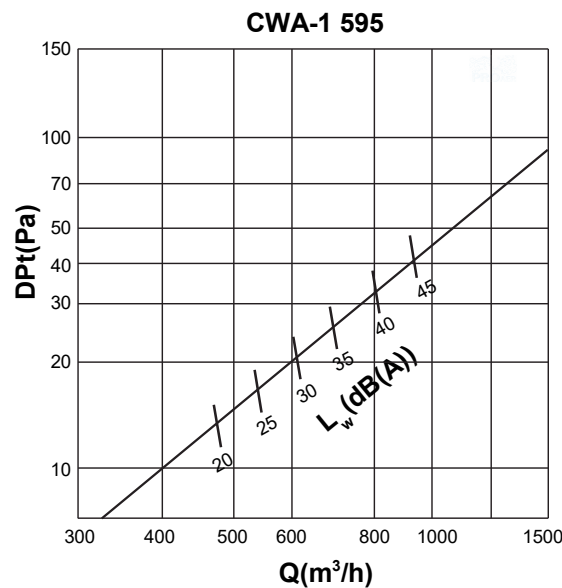
Technical data



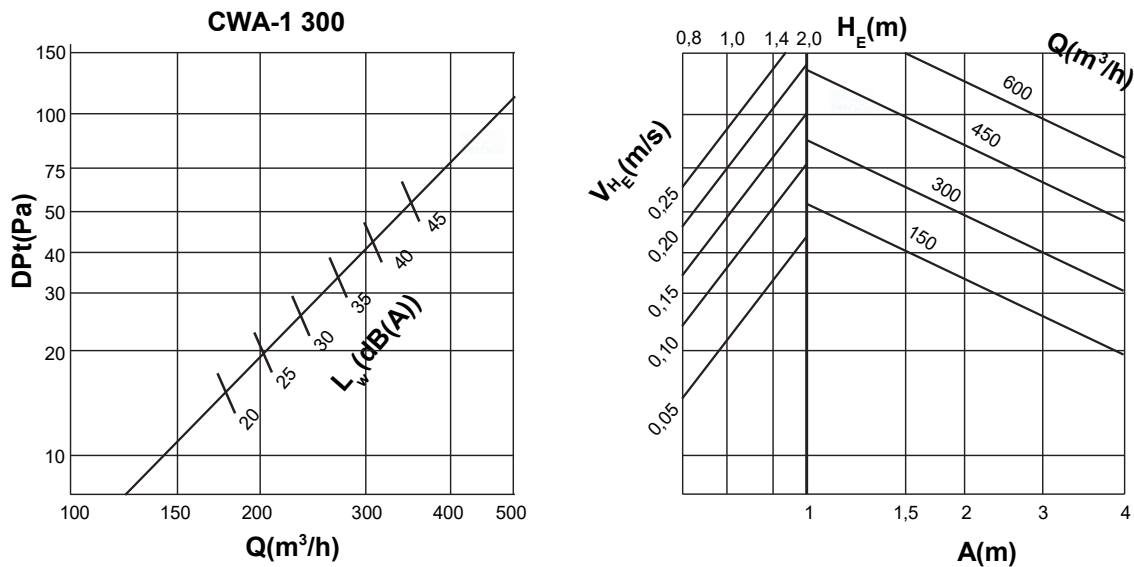
$H = 2,5\sim4,0$ m (room height)
 $H_L = 1,8$ m (occupied area)
 $H_E = H - H_L$ (m)
 A = distance (m)
 V_{H_E} = air velocity when entering in zone H_L (m/s)



CWA-1

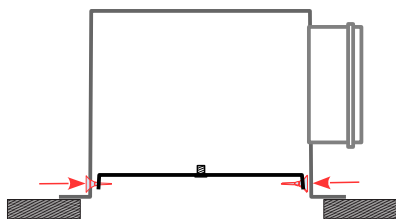


CWA-1

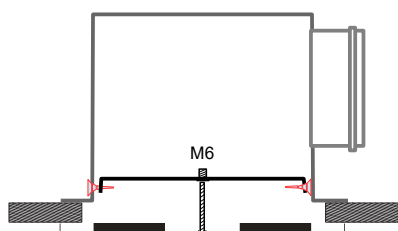


Mounting

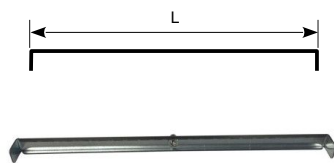
Note: Plenum box **PL** and crossbar **BW** are not included (extra cost).
The crossbars are not delivered mounted in plenum box.



1. Adjust and mount the crossbar **BW** into the plenum box



2. Attach the diffuser with M6x80 screw to the crossbar



Crossbar **BW**

CWA-1	L
625	580
595	550
500	450
400	360
300	260

CWA-2



Specifications

Circular swirl diffuser with 24 radial fixed blades.
Used for supply, exhaust or recirculation in ventilation systems.

Material

Steel plate.

Finish

Standard finish: white RAL9003.
Optional finishing: different RAL (extra cost).

Mounting / Fixing

Mounting on standard or cassette ceiling (inside).
Fixing in plenum box with crossbar **BW** (extra cost).

Optional accessories

Plenum box – **PSW** (extra cost).
Fixing systems.

Order code: **CWA-2** **595** + *

Product code

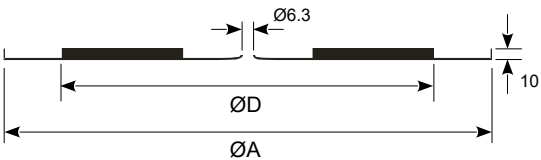
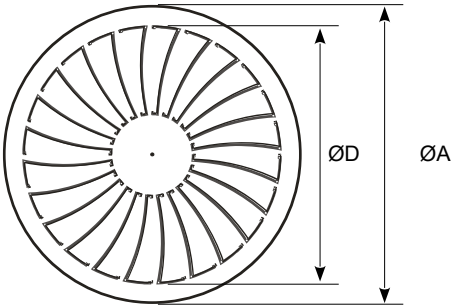
size

not specified - white RAL9003 (standard)

RALxxxx - optional RAL code

* optional accessories

Technical data



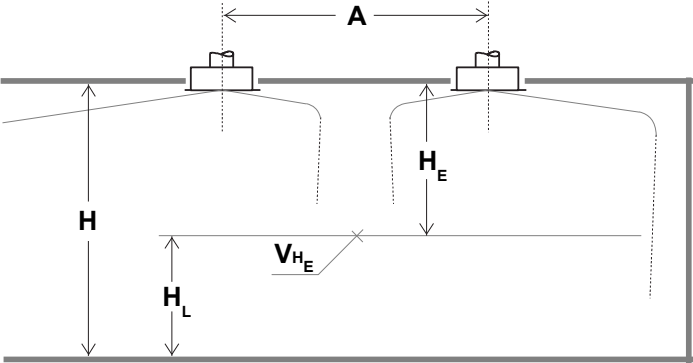
Standard sizes

Dimensions	no. of blades	ØA	ØD
625	24	625	560
595	24	595	530
500	24	500	430
400	24	400	340
300	24	300	240

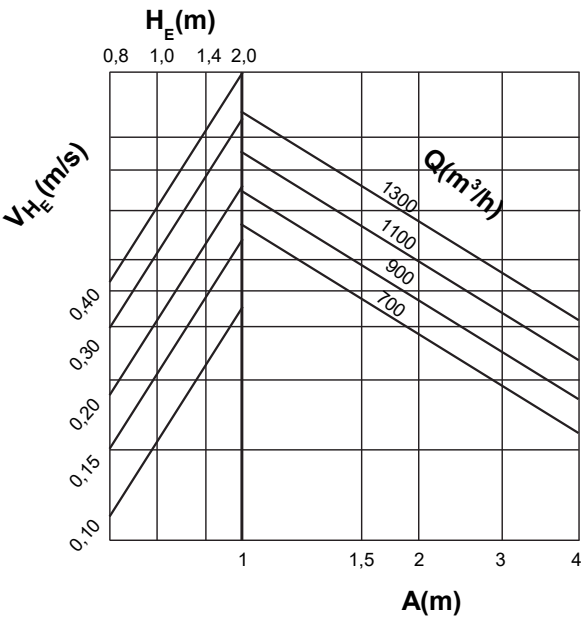
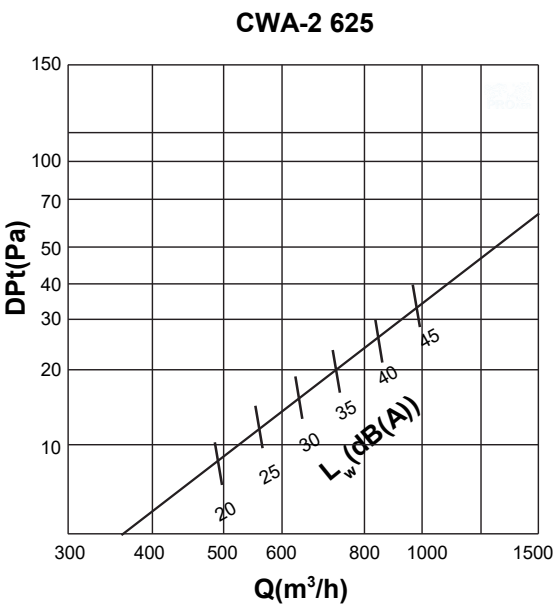
There are no other sizes available.

CWA-2

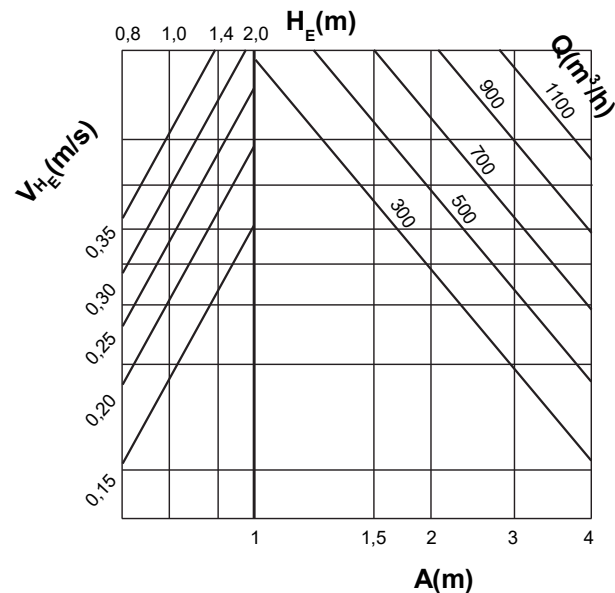
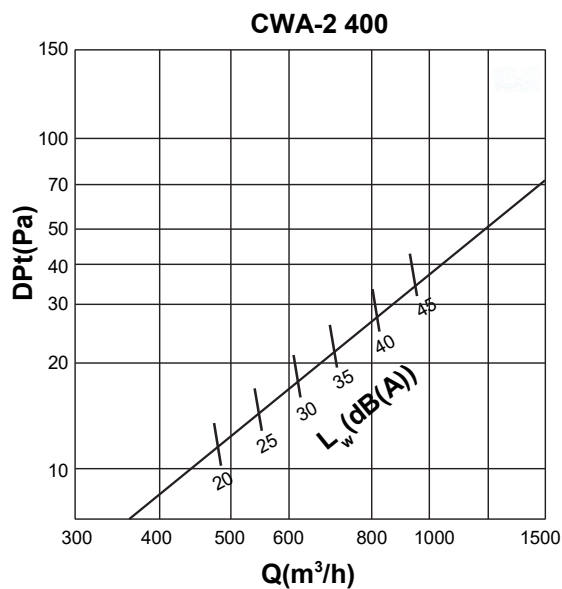
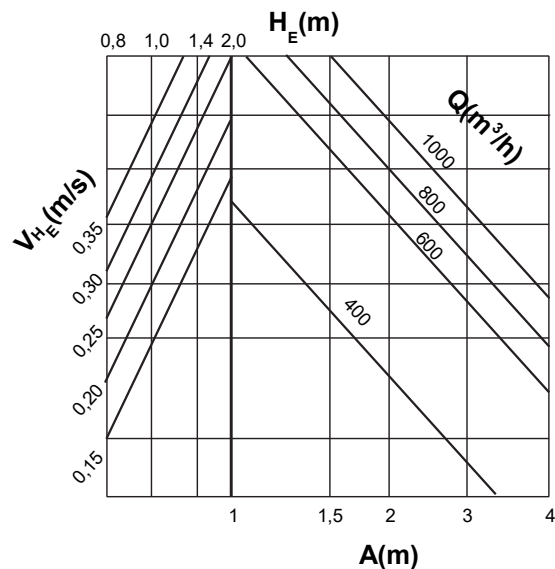
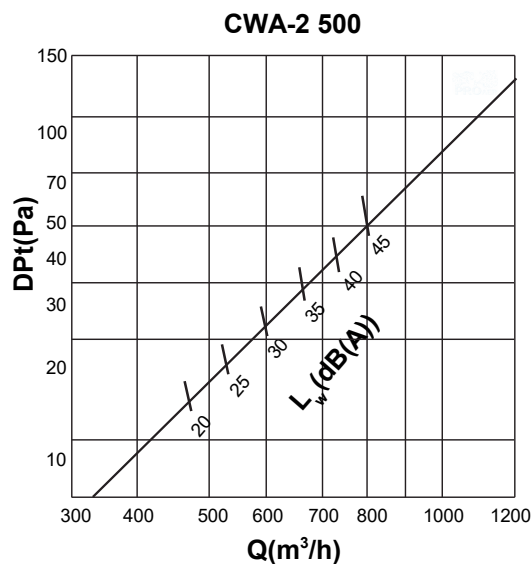
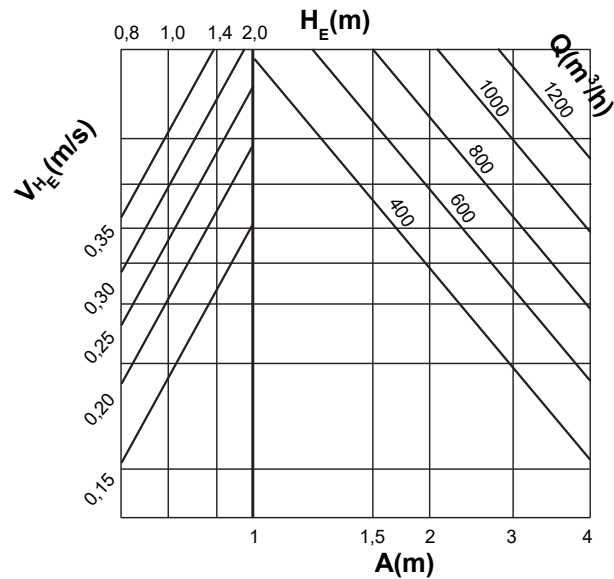
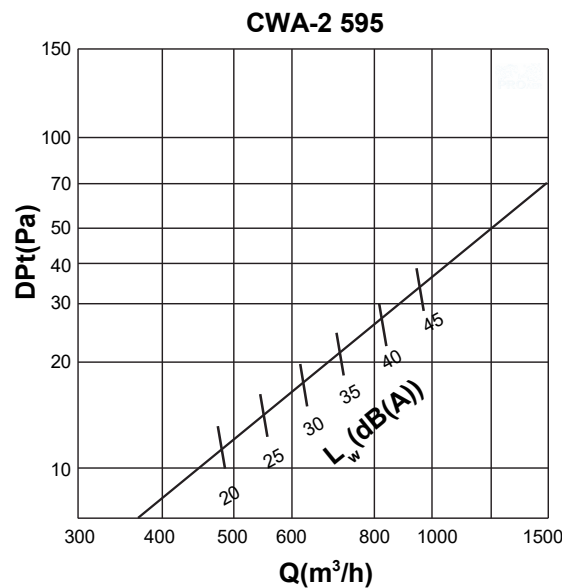
Technical data



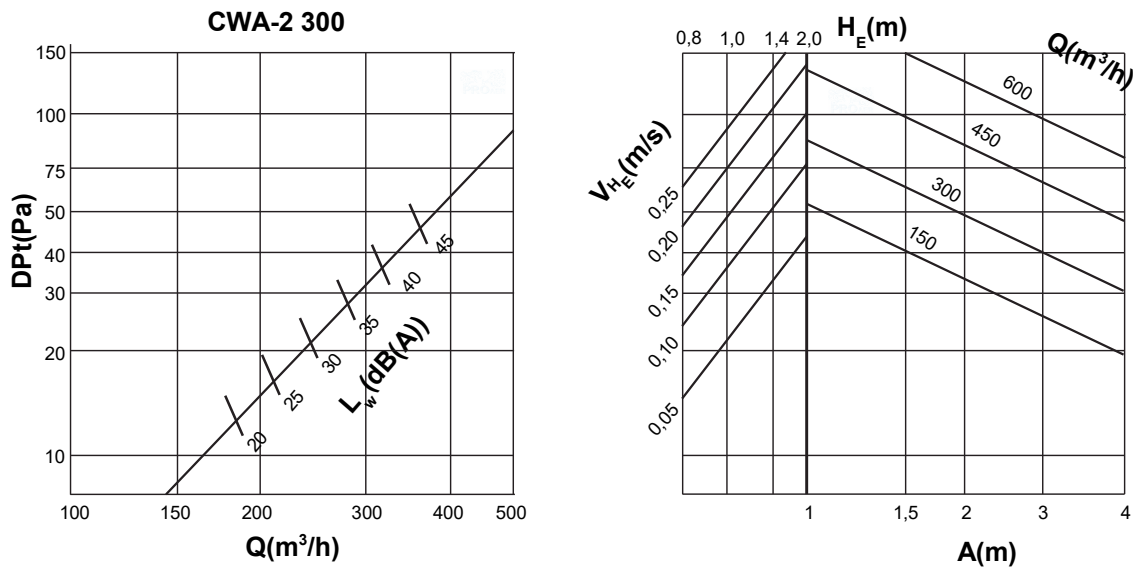
$H = 2,5\sim4,0$ m (room height)
 $H_L = 1,8$ m (occupied area)
 $H_E = H - H_L$ (m)
 A = distance (m)
 V_{H_E} = air velocity when entering in zone H_L (m/s)



CWA-2

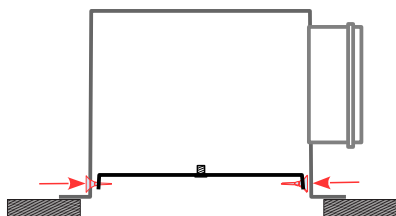


CWA-2

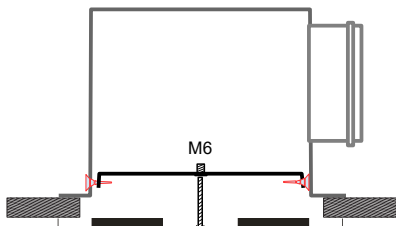


Mounting

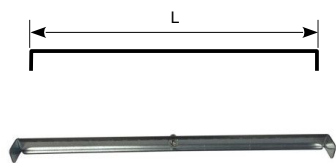
Note: Plenum box **PL** and crossbar **BW** are not included (extra cost).
The crossbars are not delivered mounted in plenum box.



1. Adjust and mount the crossbar **BW** into the plenum box



2. Attach the diffuser with M6x80 screw to the crossbar



Crossbar **BW**

CWA-2	L
625	580
595	550
500	450
400	360
300	260

RWS-1



Specifications

Circular swirl diffuser with 12 radial fixed blades for circular duct.

Used for supply, exhaust or recirculation in ventilation systems.

Material

Steel plate.

Finish

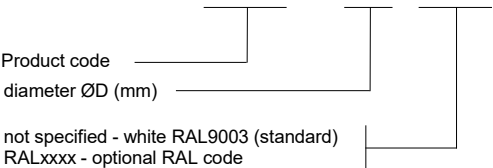
Standard finish: white RAL9003.
Optional finishing: different RAL (extra cost).

Mounting / Fixing

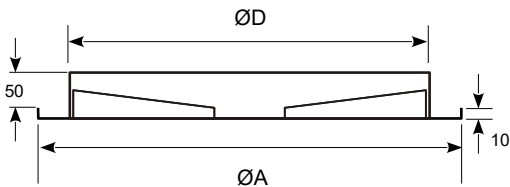
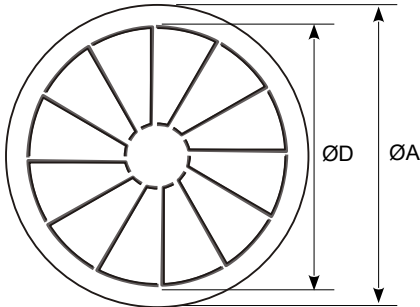
Mounting directly in circular ducts.

Screw fixing from duct side.
(there are no other fixing systems available)

Order code: **RWS-1**



Technical data



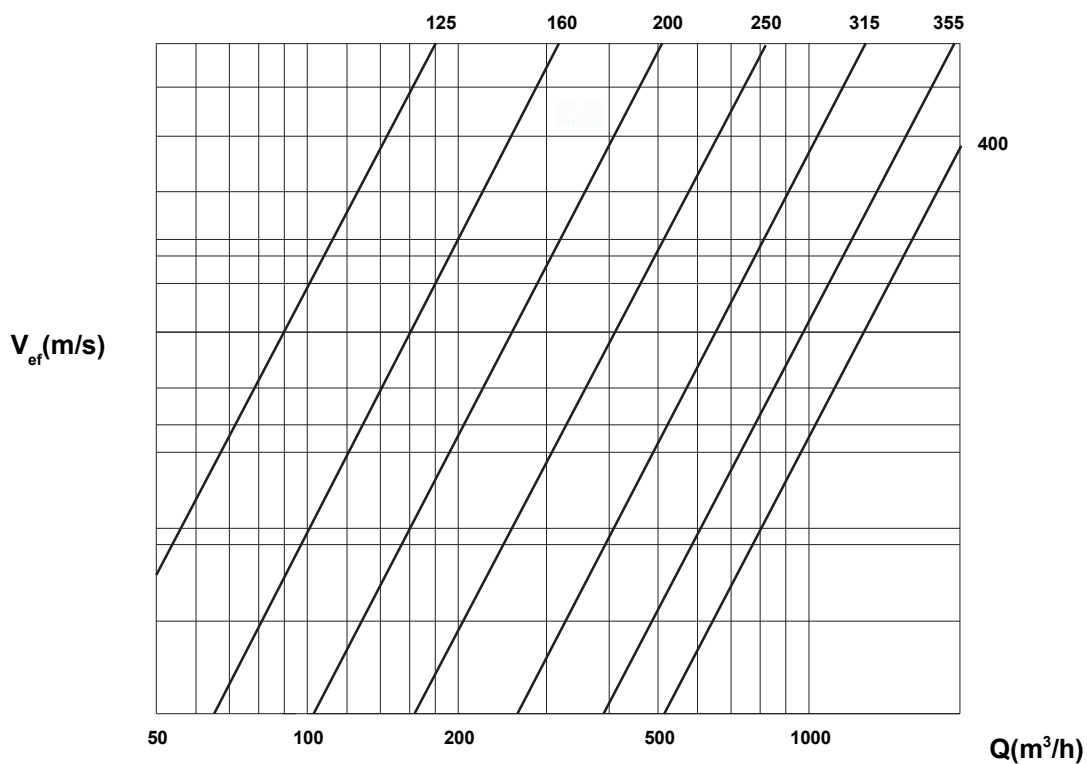
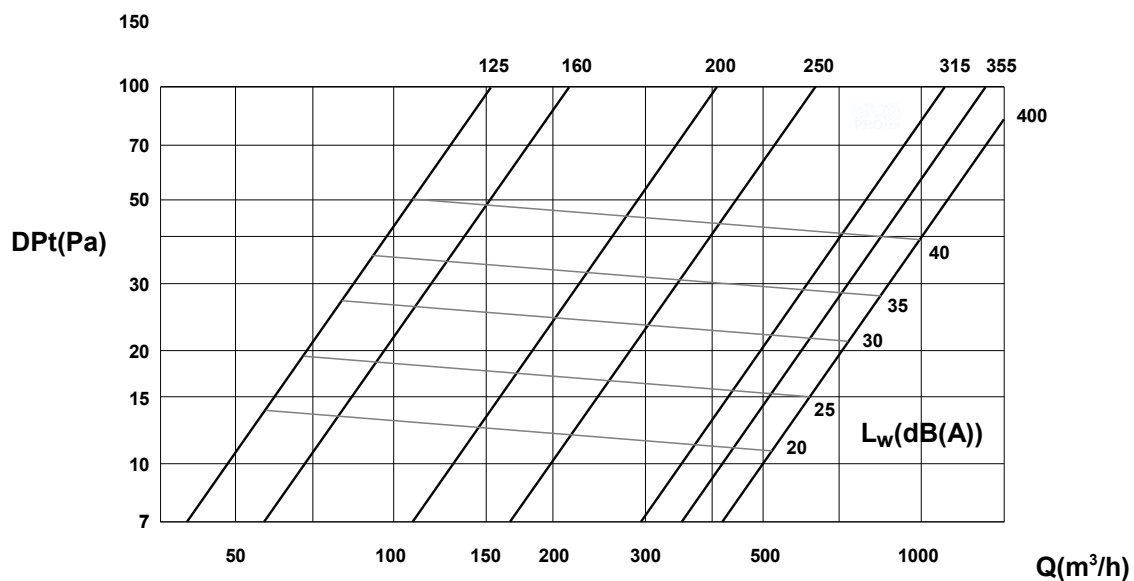
Standard sizes

Diameter	no. of blades	ØA	ØD
125	12	160	123
160	12	200	158
200	12	250	198
250	12	300	248
315	12	355	313
355	12	400	353
400	12	450	398

There are no other sizes available.

RWS-1

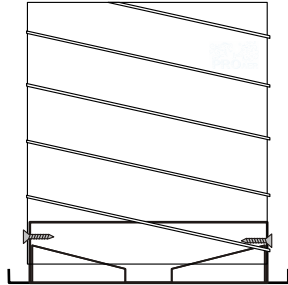
Technical data



$H = 2.5 \sim 4.0$ m (room height)
 L_w (dB(A)) = incl. room attenuation 5dB(A)

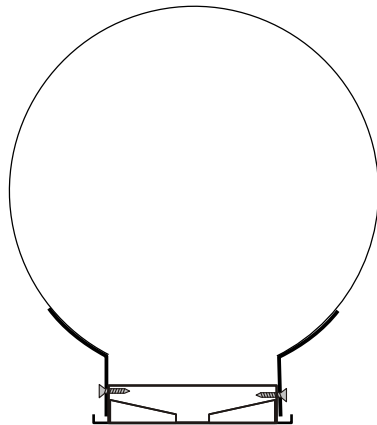
RWS-1

Mounting / Fixing



Mounting in circular duct.

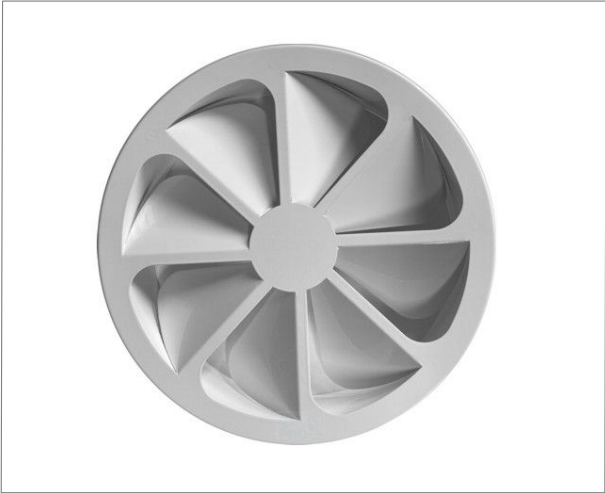
Screw fixing from duct side.



Mounting on the side of circular ducts.

Screw fixing from fitting side.

RWS-2



Specifications

Circular swirl diffuser with 8 radial fixed blades for circular duct.

Used for supply, exhaust or recirculation in ventilation systems.

Material

Steel plate.

Finish

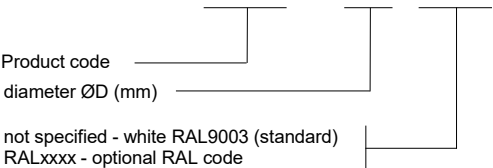
Standard finish: white RAL9003.
Optional finishing: different RAL (extra cost).

Mounting / Fixing

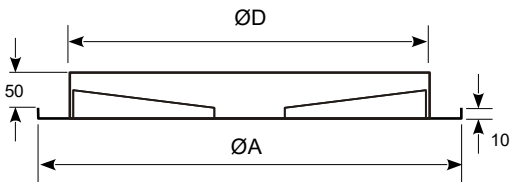
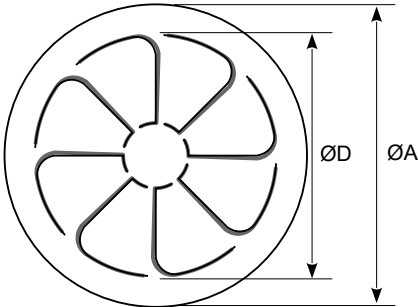
Mounting directly in circular ducts.

Screw fixing from duct side.
(there are no other fixing systems available)

Order code: **RWS-2**



Technical data



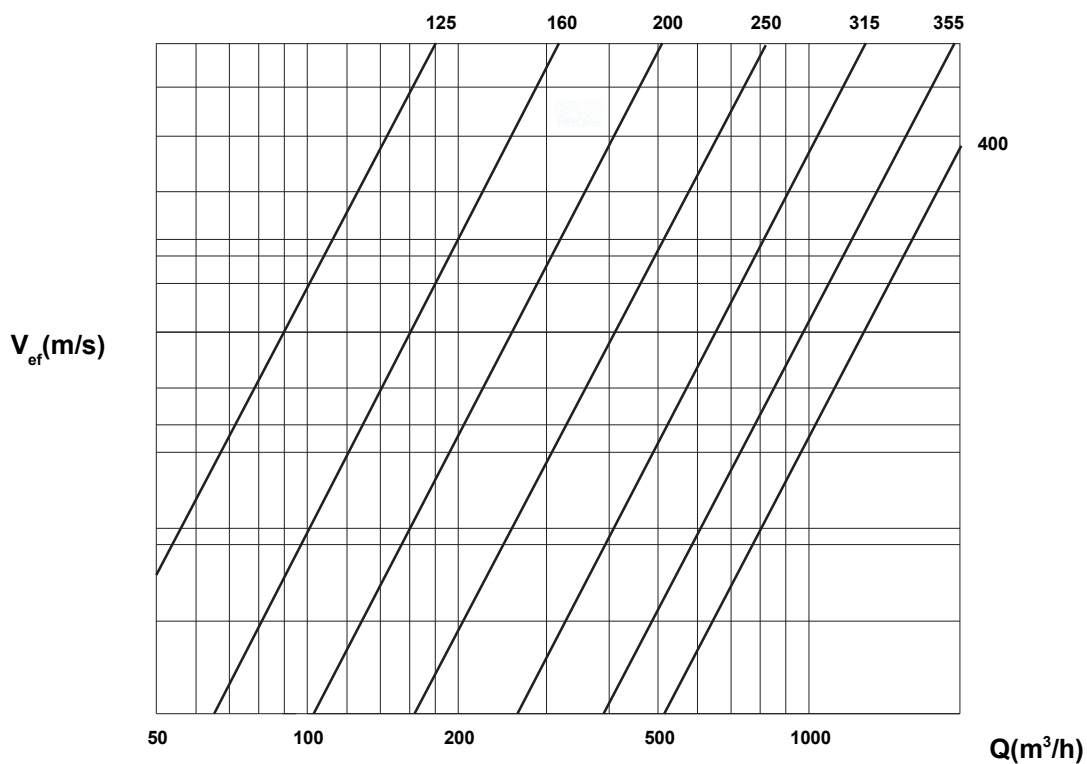
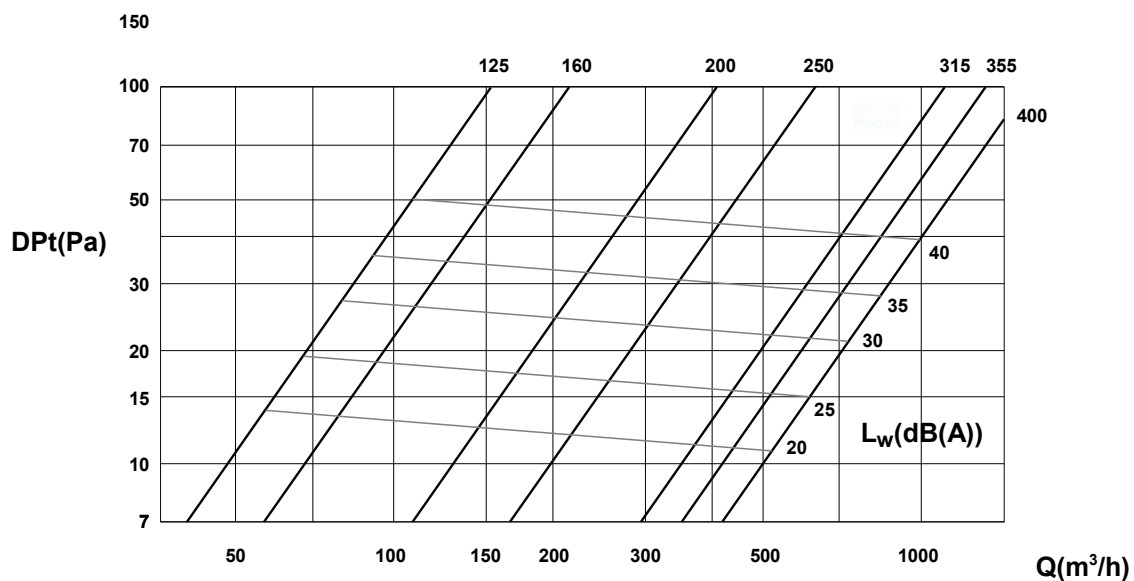
Dimensiuni

Diameter	no. of blades	ØA	ØD
125	8	160	123
160	8	200	158
200	8	250	198
250	8	300	248
315	8	355	313
355	8	400	353
400	8	450	398

There are no other sizes available.

RWS-2

Technical data

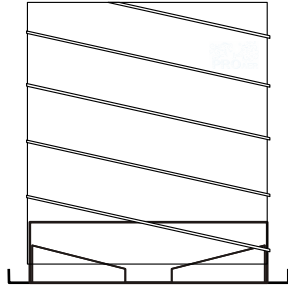


$H = 2,5 \sim 4,0$ m (room height)

L_w (dB(A)) = incl. room attenuation 5dB(A)

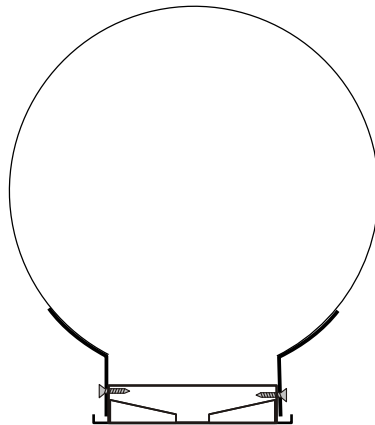
RWS-2

Mounting / Fixing



Mounting in circular duct.

Screw fixing from duct side.



Mounting on the side of circular ducts.

Screw fixing from fitting side.

Jet diffuser

JDT

[Back to Content](#)



Specifications

Jet nozzle with simple wall and adjustable nozzle.

The conical section of the central nozzle causes the air jet to be introduced at a high speed over long distance.

Used mainly for supply, in ventilation systems.

Material

Aluminium nozzle.
Steel frame.

Finish

Standard finish: white RAL9016.

Optional finishing: different RAL (extra cost).

Mounting / Fixing

Mounting directly in circular ducts.

Screw fixing from duct side.
(there are no other fixing systems available)

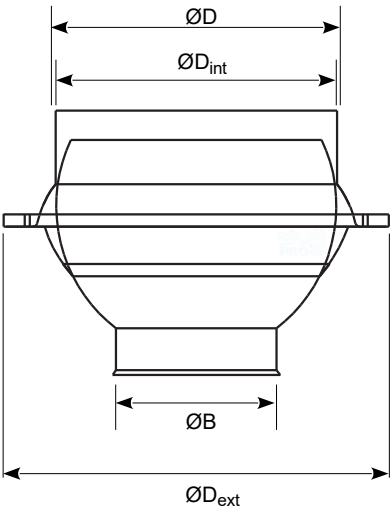
Order code: JDT

Product code

diameter ØD(mm)

not specified - white RAL9016 (standard)
RALxxxx - optional RAL code

Technical data



Standard sizes

ØD	ØD _{int}	ØD _{ext}	ØB
80	76	115	40
125	115	160	65
160	145	195	80
200	190	250	100
250	240	305	125
315	295	360	165
400	375	435	205

There are no other sizes available.

JDT

Selection table

		JDT						
		80	125	160	200	250	315	400
Q(m³/h)	A _{ef} (m²)	0.001	0.003	0.005	0.008	0.012	0.021	0.032
40	V _{ef} (m/s)	8.5	-	-	-	-	-	-
	Lt _{0.5-0.3} (m)	5.2-8.6	-	-	-	-	-	-
	ΔP _t (Pa)	44	-	-	-	-	-	-
	Lw(dB(A))	20	-	-	-	-	-	-
100	V _{ef} (m/s)	-	8.4	5.6	3.5	-	-	-
	Lt _{0.5-0.3} (m)	-	5.0-8.4	4.2-6.9	3.3-5.4	-	-	-
	ΔP _t (Pa)	-	43	25	8	-	-	-
	Lw(dB(A))	-	19	17	15	-	-	-
150	V _{ef} (m/s)	-	12.6	8.3	5.3	3.5	2.0	-
	Lt _{0.5-0.3} (m)	-	7.5-12.6	6.2-10.4	4.9-8.1	3.9-6.5	3.0-4.9	-
	ΔP _t (Pa)	-	96	57	17	10	3	-
	Lw(dB(A))	-	31	20	9	8	6	-
200	V _{ef} (m/s)	-	-	11.1	7.0	4.6	2.6	1.7
	Lt _{0.5-0.3} (m)	-	-	8.3-13.8	6.5-10.8	5.2-8.7	3.9-6.6	3.4-5.6
	ΔP _t (Pa)	-	-	98	30	17	4	3
	Lw(dB(A))	-	-	29	17	14	13	3
300	V _{ef} (m/s)	-	-	-	10.5	6.9	4.0	2.6
	Lt _{0.5-0.3} (m)	-	-	-	9.8-16.3	7.9-13.1	5.9-9.9	5.1-8.5
	ΔP _t (Pa)	-	-	-	67	38	9	6
	Lw(dB(A))	-	-	-	30	17	4	4
400	V _{ef} (m/s)	-	-	-	14.1	9.3	5.3	3.5
	Lt _{0.5-0.3} (m)	-	-	-	13.0-21.7	10.5-17.5	7.9-13.2	6.8-11.4
	ΔP _t (Pa)	-	-	-	109	68	16	10
	Lw(dB(A))	-	-	-	38	25	12	10
500	V _{ef} (m/s)	-	-	-	-	11.6	6.6	4.3
	Lt _{0.5-0.3} (m)	-	-	-	-	13.1-21.8	9.9-16.5	8.5-14.2
	ΔP _t (Pa)	-	-	-	-	106	25	16
	Lw(dB(A))	-	-	-	-	32	19	14

- A_{ef}(m²) = effective area
- V_{ef}(m/s) = effective air velocity
- Lt_{0.5}(m) = throw length in 0.5 m/s area
- Lt_{0.3}(m) = throw length in 0.3 m/s area
- ΔP_t(Pa) = pressure loss
- Lw(dB(A)) = incl. room attenuation 5dB(A)

JDT

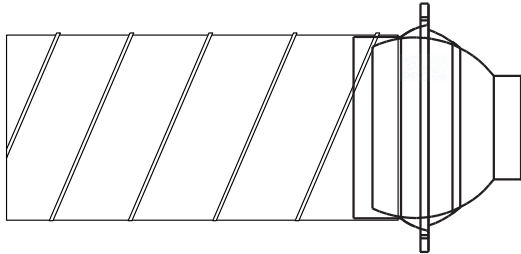
Selection table

		JDT						
		80	125	160	200	250	315	400
Q(m³/h)	A _{ef} (m²)	0.001	0.003	0.005	0.008	0.012	0.021	0.032
600	V _{ef} (m/s)	-	-	-	-	-	7.9	5.2
	L _{t0.5-0.3} (m)	-	-	-	-	-	11.8-19.7	10.2-16.9
	ΔP _t (Pa)	-	-	-	-	-	36	23
	L _w (dB(A))	-	-	-	-	-	25	16
800	V _{ef} (m/s)	-	-	-	-	-	10.6	6.9
	L _{t0.5-0.3} (m)	-	-	-	-	-	15.8	26.3
	ΔP _t (Pa)	-	-	-	-	-	65	41
	L _w (dB(A))	-	-	-	-	-	33	25
1000	V _{ef} (m/s)	-	-	-	-	-	13.2	8.7
	L _{t0.5-0.3} (m)	-	-	-	-	-	19.7-32.9	16.9-28.3
	ΔP _t (Pa)	-	-	-	-	-	101	64
	L _w (dB(A))	-	-	-	-	-	40	32
1200	V _{ef} (m/s)	-	-	-	-	-	-	9.5
	L _{t0.5-0.3} (m)	-	-	-	-	-	-	19.1-33.9
	ΔP _t (Pa)	-	-	-	-	-	-	102
	L _w (dB(A))	-	-	-	-	-	-	41

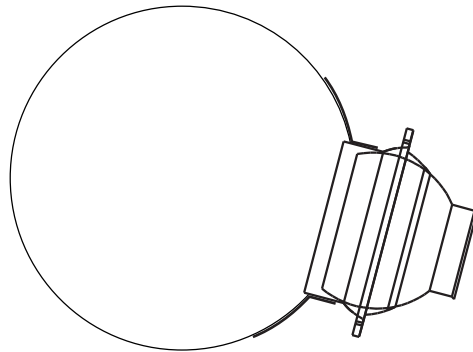
- A_{ef}(m²) = effective area
- V_{ef}(m/s) = effective air velocity
- L_{t0.5}(m) = throw length in 0.5 m/s area
- L_{t0.3}(m) = throw length in 0.3 m/s area
- ΔP_t(Pa) = pressure loss
- L_w(dB(A)) = incl. room attenuation 5dB(A)

JDT

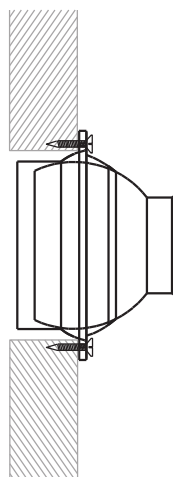
Mounting / Fixing



Mounting in circular duct.
Screw fixing from duct side.



Mounting on the side of circular ducts.
Screw fixing from fitting side.



Mounting on flat surface.
Screw fixing through diffuser frame.
(not recommended)

Jet diffuser

JDA

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Specifications

Jet nozzle with double wall and adjustable nozzle.

The conical section of the central nozzle causes the air jet to be introduced at a high speed over long distance.

Used mainly for supply, in ventilation systems.

Material

Aluminium nozzle.
Steel frame.

Finish

Standard finish: white RAL9016.

Optional finishing: different RAL (extra cost).

Mounting / Fixing

Mounting directly in circular ducts.

Screw fixing from duct side.
(there are no other fixing systems available)

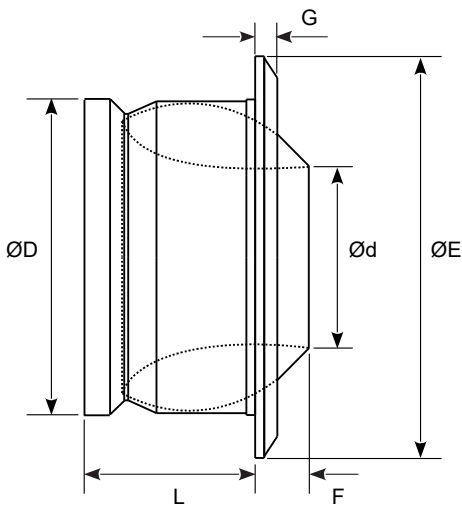
Order code: **JDA**

Product code

diameter ØD(mm)

not specified - white RAL9016 (standard)
RALxxxx - optional RAL code

Technical data



ØD - connection duct diameter

Standard sizes

ØD	Ød	ØE	L	G	F
100	55	148	95	20	0
125	64	185	89	10	4
160	82	210	123	21	10
200	108	273	127	16	14
250	135	300	175	24	17
315	180	380	180	25	30
400	230	483	223	24	47
500	255	625	270	47	50
630	305	755	317	51	58

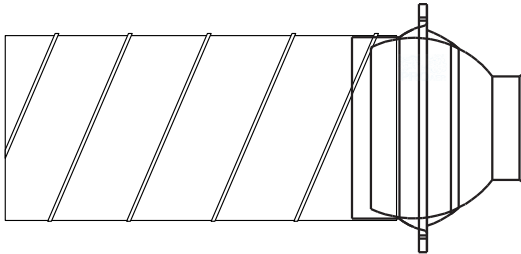
There are no other sizes available.

Selection table

Ød (mm)	L _t (m)									V _t (m/s)
	10			20			30			
	Q(m³/h)	Dp(Pa)	L _w (dB(A))	Q(m³/h)	Dp(Pa)	L _w (dB(A))	Q(m³/h)	Dp(Pa)	L _w (dB(A))	
100	-	-	-	94	86	29	140	175	41	0,25
125	-	-	-	122	71	25	180	136	36	
160	83	-	<20	165	29	<20	250	98	35	
200	104	-	<20	220	26	<20	306	67	27	
250	133	-	<20	272	17	<20	382	46	22	
315	180	-	<20	350	11	<20	540	34	20	
400	234	-	<20	465	8	<20	702	13	<20	
500	279	-	<20	527	7	<20	865	8	<20	
630	334	-	<20	685	6	<20	1050	-	<20	
100	94	86	29	-	-	-	-	-	-	0,50
125	122	71	25	-	-	-	-	-	-	
160	165	29	<20	330	123	44	-	-	-	
200	220	26	<20	435	113	38	-	-	-	
250	274	18	<20	548	63	34	825	112	45	
315	350	11	<20	690	57	28	1055	104	40	
400	464	8	<20	930	32	20	1394	69	33	
500	545	6	<20	1233	21	<20	1650	45	28	
630	635	-	<20	1680	15	<20	1915	31	20	
100	-	-	-	-	-	-	-	-	-	1,00
125	-	-	-	-	-	-	-	-	-	
160	330	123	44	-	-	-	-	-	-	
200	435	113	38	-	-	-	-	-	-	
250	548	63	34	1100	160	53	-	-	-	
315	700	57	28	1400	150	48	2105	290	63	
400	930	32	20	1860	123	41	2795	240	55	
500	1146	26	<20	2245	95	37	3280	190	42	
630	1325	17	<20	2635	68	28	3750	125	38	

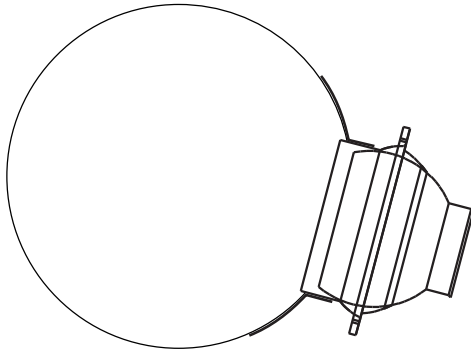
JDA

Mounting / Fixing



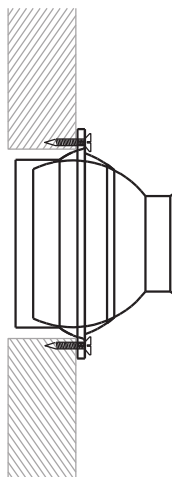
Mounting in circular duct.

Screw fixing from duct side.



Mounting on the side of circular ducts.

Screw fixing from fitting side.



Mounting on flat surface.
Screw fixing through diffuser frame.
(not recommended)

Exhaust air valve

VA

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Specifications

Exhaust air valve with mounting frame.
Adjustable central core for airflow regulation.

Used only for exhaust, in ventilation systems.

Material

Steel.

Finish

Standard finish: white RAL9016.

Optional finishing: different RAL (extra cost).

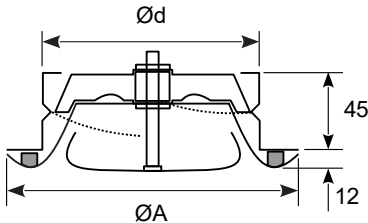
Mounting / Fixing

Mounting on the ceiling (inside).
Mounting frame is included.

Order code: **VA** **aaa**

Product code _____
diameter Ød (mm) _____
not specified - white RAL9016 (standard)
RALxxxx - optional RAL code _____

Technical data



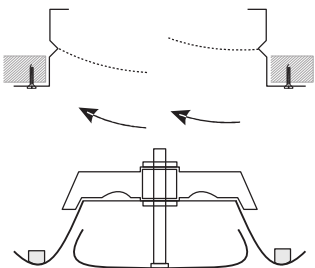
Ød - connection duct diameter

Standard sizes

Ød	ØA	Q (m³/h) @ Vef 3 (m/s)
100	137	90
125	164	150
160	212	200
200	248	250

There are no other sizes available.

Mounting



Mount the frame.

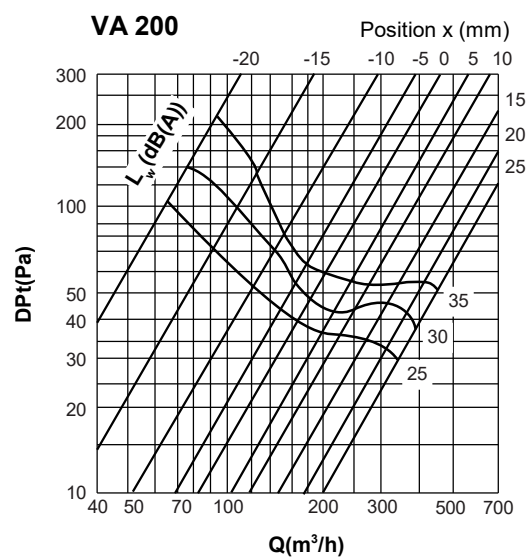
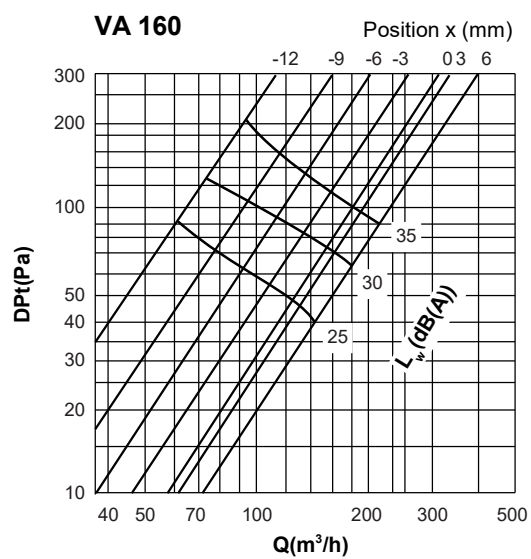
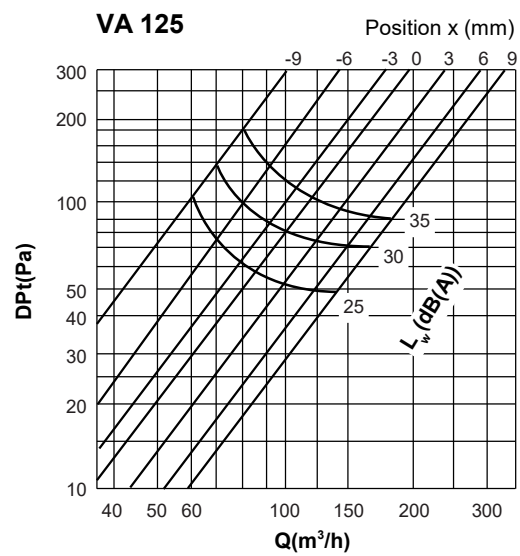
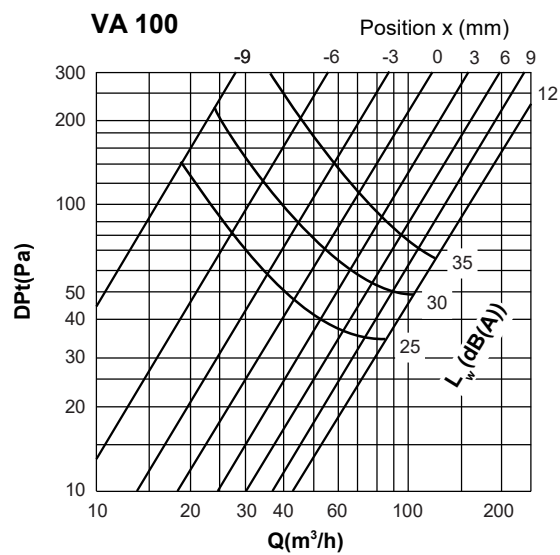
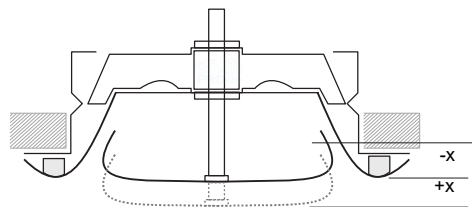
Screw valve body.

Exhaust air valve

VA

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Technical data



Supply air valve

VR

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Specifications

Supply air valve with mounting frame.
Adjustable central core for airflow regulation.

Used only for supply, in ventilation systems.

Material

Steel.

Finish

Standard finish: white RAL9016.

Optional finishing: different RAL (extra cost).

Mounting / Fixing

Mounting on the ceiling (inside).
Mounting frame is included.

Order code: **VR** **aaa** _____

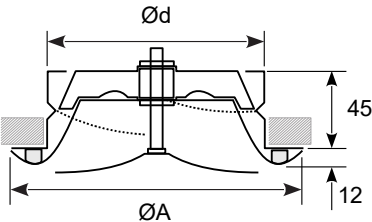
Product code _____

diameter Ød (mm) _____

not specified - white RAL9016 (standard)

RALxxxx - optional RAL code

Technical data

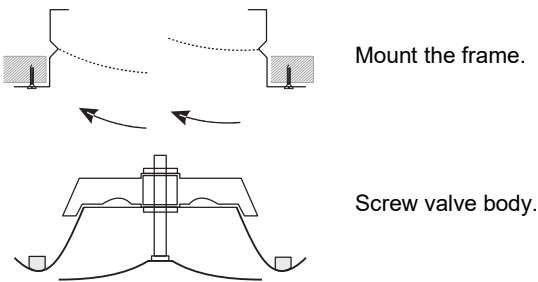


Standard sizes

Ød	ØA	Q (m³/h) @ Vef 3 (m/s)
100	137	90
125	164	150
160	212	200
200	248	250

There are no other sizes available.

Mounting

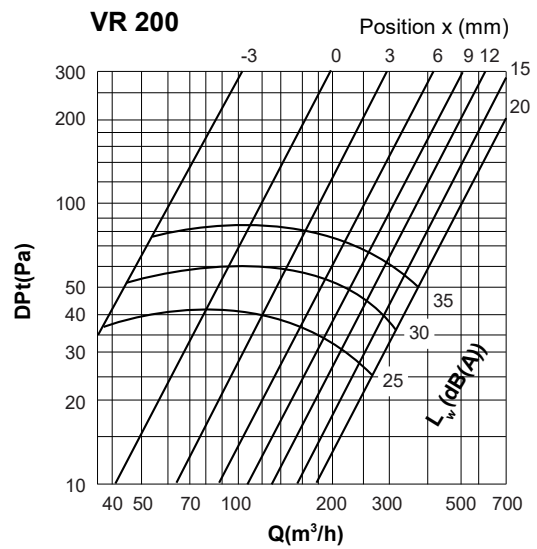
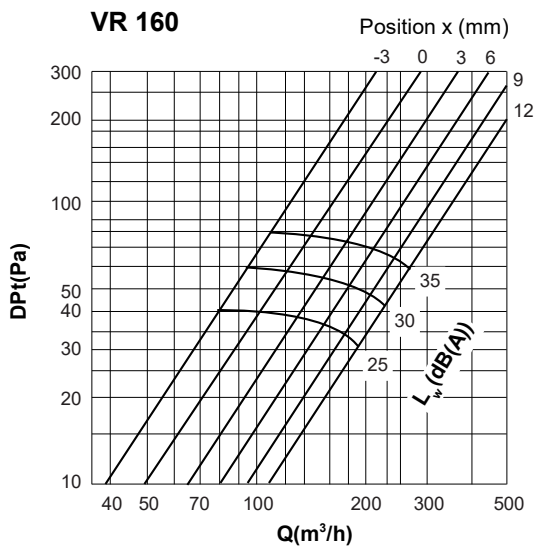
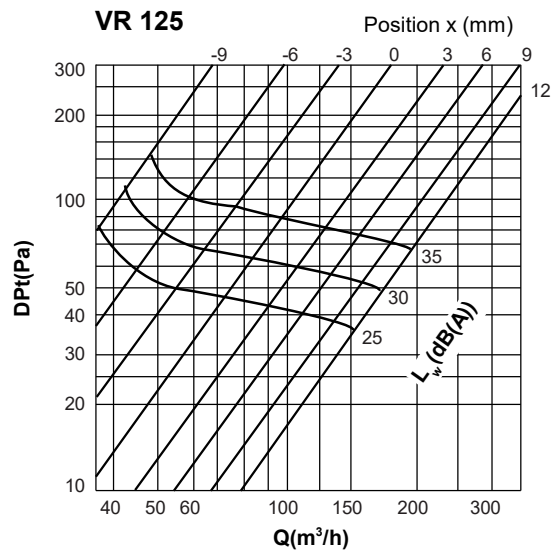
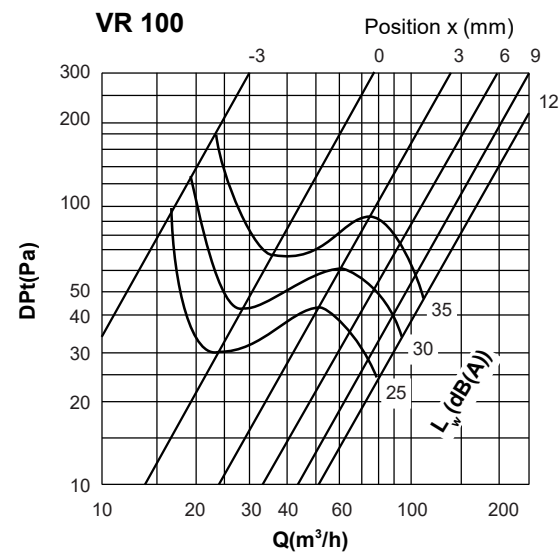
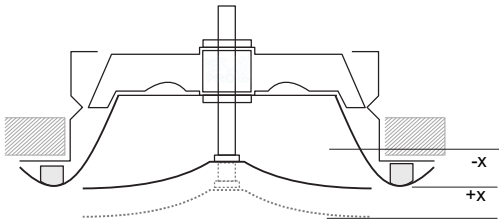


Supply air valve

VR

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Technical data



TR



Specifications

Transfer grille for standard doors, with fixed nonvision blades (form Λ).
Composed from a grille and a counterframe, for both sides of the doors.

For standard doors with thickness between **28 ~ 55 mm**.

Used for air transfer between two rooms.

Material

Aluminium.

Finish

Standard finish: anodized aluminium.

Optional finishing: different RAL (extra cost).

Mounting / Fixing

Mounting in doors.
Fixing with visible screws (countersunk hole in frame).

Fixing without screws with industrial contact adhesives**.

Optional accessories

Wire mesh on grille counterframe - **PS** (extra cost)

Order code: **TR** **aaa x bbb** **++**

Product code

opening length L (mm)

opening height H (mm)

ALU - anodised aluminium (standard)

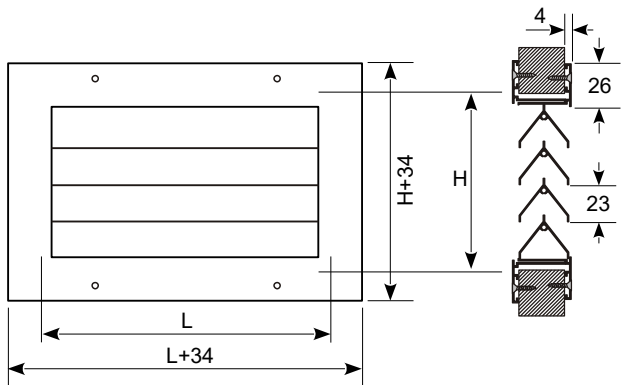
RALxxx - optional RAL code

not specified - visible screw fixing (standard)

FG - without holes in frame**

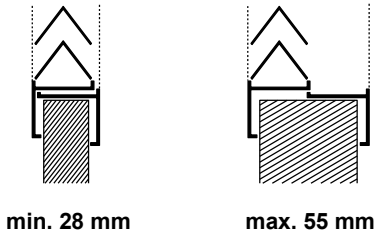
* optional accessories
** adhesive not included

Technical data



LxH - opening hole size

Door thickness (minimum ~ maximum)



Standard sizes

LxH	Q (m³/h) @ Vef 1,25 (m/s)	Q (m³/h) @ Vef 2,5 (m/s)
300x100	70	145
400x100	95	190
500x100	120	245
600x100	150	300
300x150	115	225
400x150	150	300
500x150	175	350
600x150	255	515
400x200	195	390
500x200	250	500
600x200	305	610
500x300	390	775
600x300	415	830
600x400	695	1390

Custom sizes

Custom sizes available (under certain commercial conditions),
between:
opening length L: 100~600 mm
opening height H: 100~2000 mm

TR

Selection table

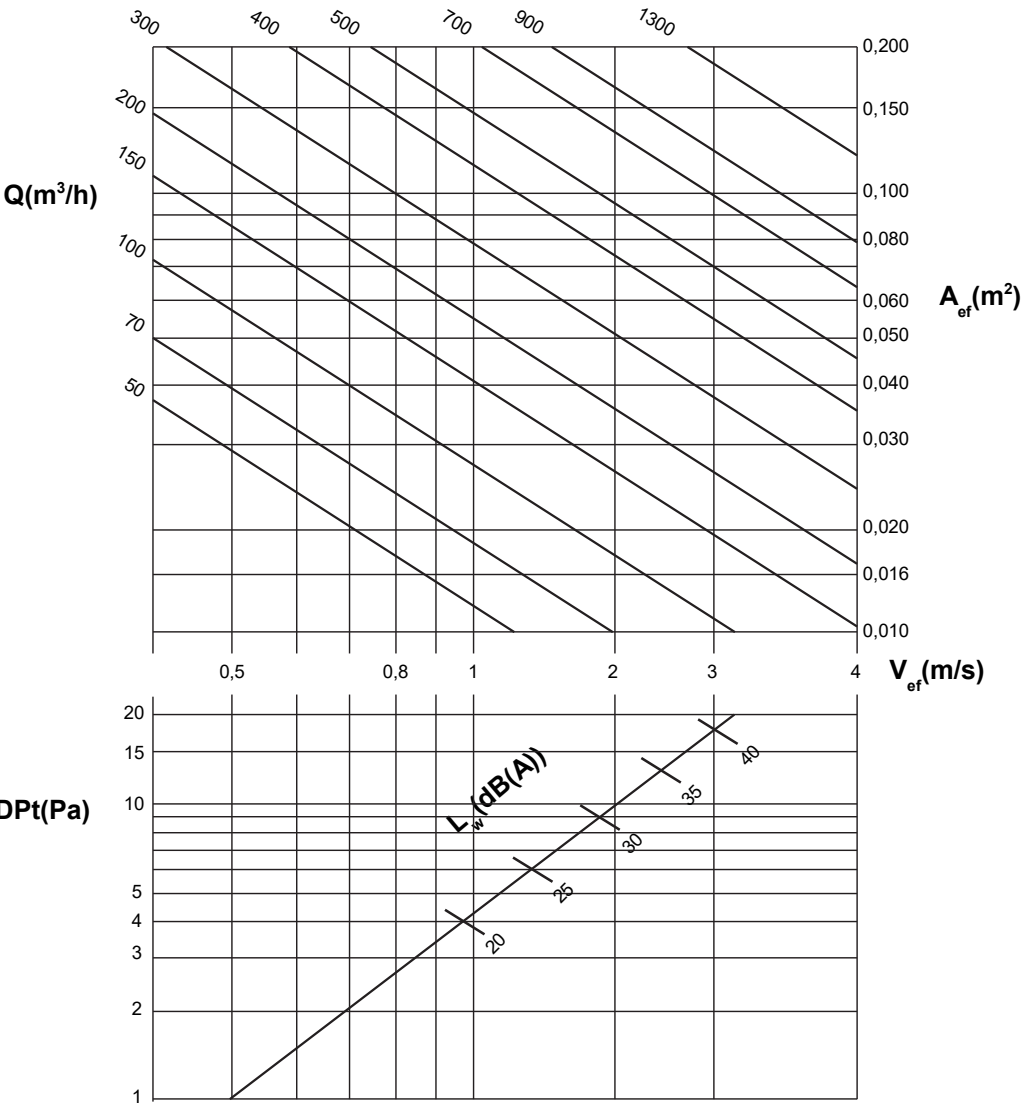
Q (m³/h)	LxH (mm)	A _{ef} (m²)	200x100	300x100	400x100	500x100	300x150	600x100	400x150	500x150	400x200	600x150	500x200	400x250	600x200	500x250	400x300	600x250	500x300	600x300	500x400	600x400
			0,010	0,016	0,021	0,026	0,033	0,039	0,043	0,056	0,067	0,086	0,092	0,122	0,154							
50	Lw(dB(A)) ΔP _t (Pa)		27 6	17 3																		
70	Lw(dB(A)) ΔP _t (Pa)		34 12	26 6	20 4																	
100	Lw(dB(A)) ΔP _t (Pa)			35 13	29 8	20 4	- 3															
150	Lw(dB(A)) ΔP _t (Pa)				39 18	30 9	27 7	22 5	20 4													
200	Lw(dB(A)) ΔP _t (Pa)					38 17	34 13	29 9	28 7	21 4												
250	Lw(dB(A)) ΔP _t (Pa)						39 18	34 13	32 10	27 7	21 4											
300	Lw(dB(A)) ΔP _t (Pa)							38 17	37 15	29 8	27 7	19 4	- 3									
350	Lw(dB(A)) ΔP _t (Pa)								42 22	35 13	29 8	24 6	22 5									
400	Lw(dB(A)) ΔP _t (Pa)									40 18	36 14	29 8	27 7	19 4								
500	Lw(dB(A)) ΔP _t (Pa)											43 25	35 13	32 10	26 6	- 3						
600	Lw(dB(A)) ΔP _t (Pa)												39 19	37 15	29 8	21 4						
700	Lw(dB(A)) ΔP _t (Pa)													42 20	33 12	27 7						
800	Lw(dB(A)) ΔP _t (Pa)																36 14	29 8				
900	Lw(dB(A)) ΔP _t (Pa)																40 19	31 9				
1000	Lw(dB(A)) ΔP _t (Pa)																				34 13	
1200	Lw(dB(A)) ΔP _t (Pa)																				39 18	

• Lw(dB(A)) incl. room attenuation 5dB(A)

TR

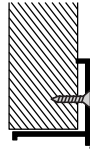
Technical data

		A _{ef} (m²)							
H (mm)	600	-	-	-	-	-	-	0,216	0,285
	500	-	-	-	-	-	0,149	0,178	0,238
	450	-	-	-	-	-	0,135	0,162	0,216
	400	-	-	-	-	0,096	0,122	0,154	0,194
	350	-	-	-	0,068	0,084	0,105	0,126	0,168
	300	-	-	0,049	0,056	0,065	0,086	0,092	0,121
	250	-	0,030	0,041	0,047	0,056	0,068	0,086	0,112
	200	0,020	0,024	0,029	0,036	0,043	0,056	0,068	0,086
	150	0,014	0,017	0,025	0,029	0,033	0,039	0,057	0,066
	100	0,010	0,013	0,016	0,019	0,021	0,027	0,033	0,043
		200	250	300	350	400	500	600	800
		L (mm)							

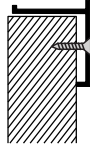


TR

Mounting

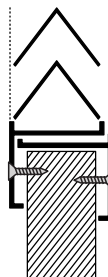


1. Mount the counterframe in opening hole.

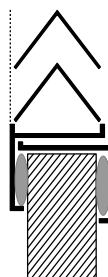


2. Mount the grille on opposed door side.
The grille should enter inside previously mounted counterframe.

Fixing



Visible screw fixing (**standard**)



Fixing with industrial contact adhesive.
(Not supplied. Should be purchased by installer)

Transfer grille for PVC panel

TR-P

[Back to Content](#)



Specifications

Transfer grille for PVC panel, with fixed nonvision blades (form Λ).
Composed from a grille and a counterframe, for both sides of the panel.

For PVC panel with thickness between **20 ~ 24 mm**.

Used for air transfer between two rooms.

Material

Aluminium

Finish

Standard finish: white RAL9003.

Optional finishing:
- natural aluminium
- different RAL (extra cost)

Mounting / Fixing

Mounting in PVC panel.
Fixing without screws with industrial contact adhesives**.

Fixing with visible screws. (extra cost).

Order code: **TR-P** **aaa x bbb** **+***

Product code _____

opening length L (mm) _____

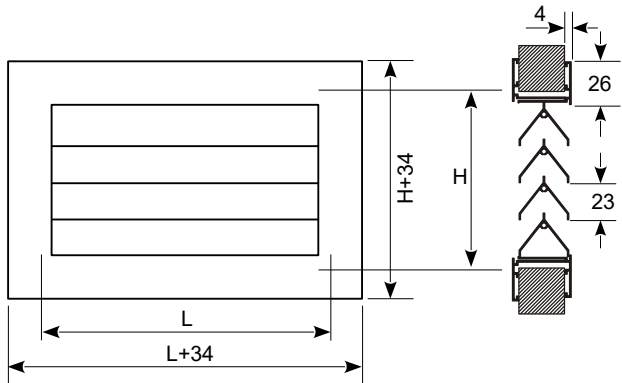
opening height H (mm) _____

not specified - white RAL9003 (standard)
RALxxxx - optional RAL code
ALU - natural aluminium

not specified - without holes in frame (standard)
G - with countersunk holes in frame (optional)*

* optional accessories
** adhesive not included

Technical data



LxH - opening hole size

Panel thickness (minimum ~ maximum)



PVC panel 20~24 mm

Standard sizes

LxH	Q (m³/h) @ Vef 1,25 (m/s)	Q (m³/h) @ Vef 2,5 (m/s)
300x100	70	145
400x100	95	190
500x100	120	245
600x100	150	300
300x150	115	225
400x150	150	300
500x150	175	350
600x150	255	515
400x200	195	390
500x200	250	500
600x200	305	610
500x300	390	775
600x300	415	830
600x400	695	1390

Custom sizes

Custom sizes available (under certain commercial conditions),
between:
opening length L: 100~600 mm
opening height H: 100~2000 mm

TR-P

Selection table

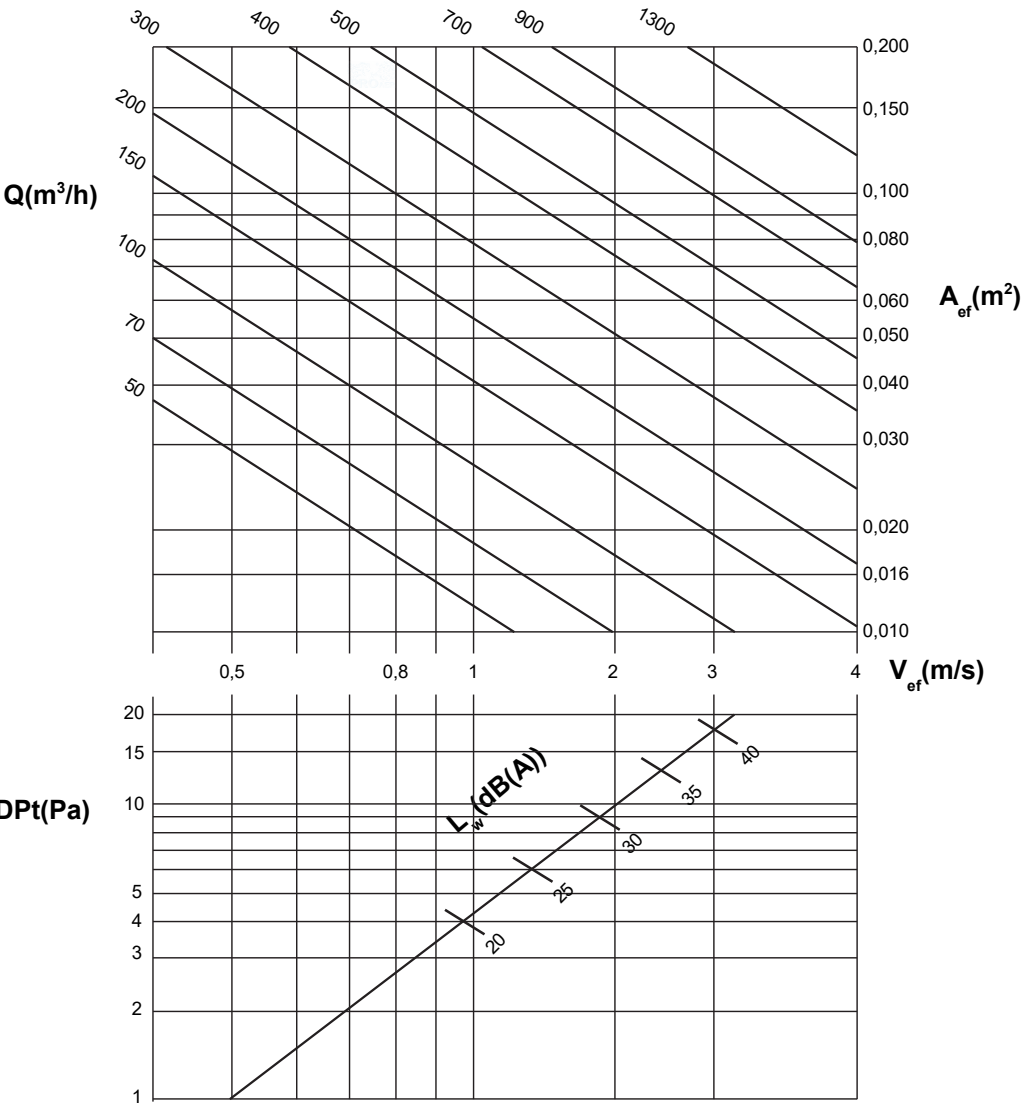
Q (m³/h)	LxH (mm)	A _{ef} (m²)	200x100	300x100	400x100	500x100	300x150	600x100	400x150	500x150	400x200	600x150	500x200	400x250	600x200	500x250	400x300	600x250	500x300	600x300	500x400	600x400
			0,010	0,016	0,021	0,026	0,033	0,039	0,043	0,056	0,067	0,086	0,092	0,122	0,154							
50	Lw(dB(A)) ΔP _t (Pa)		27 6	17 3																		
70	Lw(dB(A)) ΔP _t (Pa)		34 12	26 6	20 4																	
100	Lw(dB(A)) ΔP _t (Pa)			35 13	29 8	20 4	- 3															
150	Lw(dB(A)) ΔP _t (Pa)				39 18	30 9	27 7	22 5	20 4													
200	Lw(dB(A)) ΔP _t (Pa)					38 17	34 13	29 9	28 7	21 4												
250	Lw(dB(A)) ΔP _t (Pa)						39 18	34 13	32 10	27 7	21 4											
300	Lw(dB(A)) ΔP _t (Pa)							38 17	37 15	29 8	27 7	19 4	- 3									
350	Lw(dB(A)) ΔP _t (Pa)								42 22	35 13	29 8	24 6	22 5									
400	Lw(dB(A)) ΔP _t (Pa)									40 18	36 14	29 8	27 7	19 4								
500	Lw(dB(A)) ΔP _t (Pa)											43 25	35 13	32 10	26 6	- 3						
600	Lw(dB(A)) ΔP _t (Pa)												39 19	37 15	29 8	21 4						
700	Lw(dB(A)) ΔP _t (Pa)													42 20	33 12	27 7						
800	Lw(dB(A)) ΔP _t (Pa)																36 14	29 8				
900	Lw(dB(A)) ΔP _t (Pa)																40 19	31 9				
1000	Lw(dB(A)) ΔP _t (Pa)																				34 13	
1200	Lw(dB(A)) ΔP _t (Pa)																				39 18	

• Lw(db(A)) incl. room attenuation 5dB(A)

TR-P

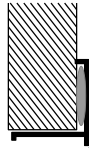
Technical data

		A _{ef} (m²)							
H (mm)	600	-	-	-	-	-	-	0,216	0,285
	500	-	-	-	-	-	0,149	0,178	0,238
	450	-	-	-	-	-	0,135	0,162	0,216
	400	-	-	-	-	0,096	0,122	0,154	0,194
	350	-	-	-	0,068	0,084	0,105	0,126	0,168
	300	-	-	0,049	0,056	0,065	0,086	0,092	0,121
	250	-	0,030	0,041	0,047	0,056	0,068	0,086	0,112
	200	0,020	0,024	0,029	0,036	0,043	0,056	0,068	0,086
	150	0,014	0,017	0,025	0,029	0,033	0,039	0,057	0,066
	100	0,010	0,013	0,016	0,019	0,021	0,027	0,033	0,043
		200	250	300	350	400	500	600	800
L (mm)									



TR-P

Mounting

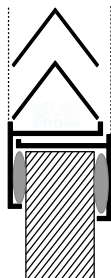


1. Mount the counterframe in opening hole.

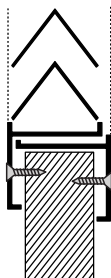


2. Mount the grille on opposed door side.
The grille should enter inside previously mounted counterframe.

Fixing



Fixing with industrial contact adhesive (**standard**).
(Not supplied. Should be purchased by installer)



Visible screw fixing (optional, extra cost).

TR-D



Specifications

Transfer grille with fixed, curved blades, inclined at 45°. Composed of two identical grilles, one for each wall side.

For walls with minimum thickness of **42 mm**.

Used for air transfer between two rooms.

Material

Aluminiu (profile extrudate).

Finish

Standard finish: white RAL9003.

- Optional finishing:
- natural aluminium
 - different RAL (extra cost)

Mounting / Fixing

Mounting on the wall (inside).
Fixing with visible screws (countersunk hole in frame).

Different fixing systems are available under certain commercial conditions.
(see **Fixing systems for grilles / diffusers**)

Optional accessories

Wire mesh - **PS** (extra cost)

Order code: **TR-D** **aaa x bbb** **+***

Product code

opening length L (mm)

opening height H (mm)

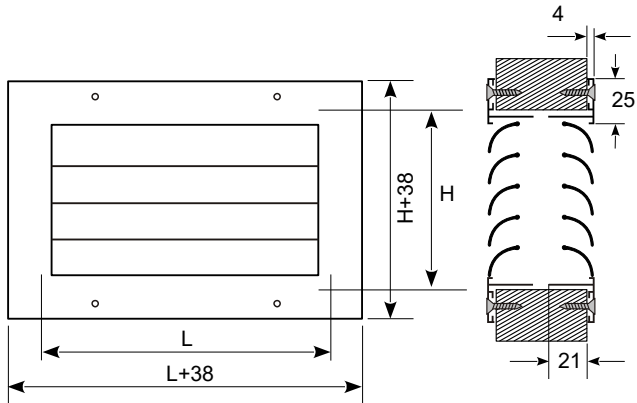
not specified - white RAL9003 (standard)

RALxxxx - optional RAL code

ALU - natural aluminium

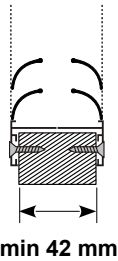
* optional accessories

Technical data



LxH - opening hole size

Wall thickness (minimum)



Standard sizes

LxH	Q (m³/h) @ Vef 1,25 (m/s)	Q (m³/h) @ Vef 2,5 (m/s)
300x100	70	145
400x100	95	190
500x100	120	245
600x100	150	300
300x150	115	225
400x150	150	300
500x150	175	350
600x150	255	515
400x200	195	390
500x200	250	500
600x200	305	610
500x300	390	775
600x300	415	830
600x400	695	1390

Custom sizes

Custom sizes available (under certain commercial conditions), between:
opening length L: 100~600 mm
opening height H: 100~2000 mm

TR-D

Selection table

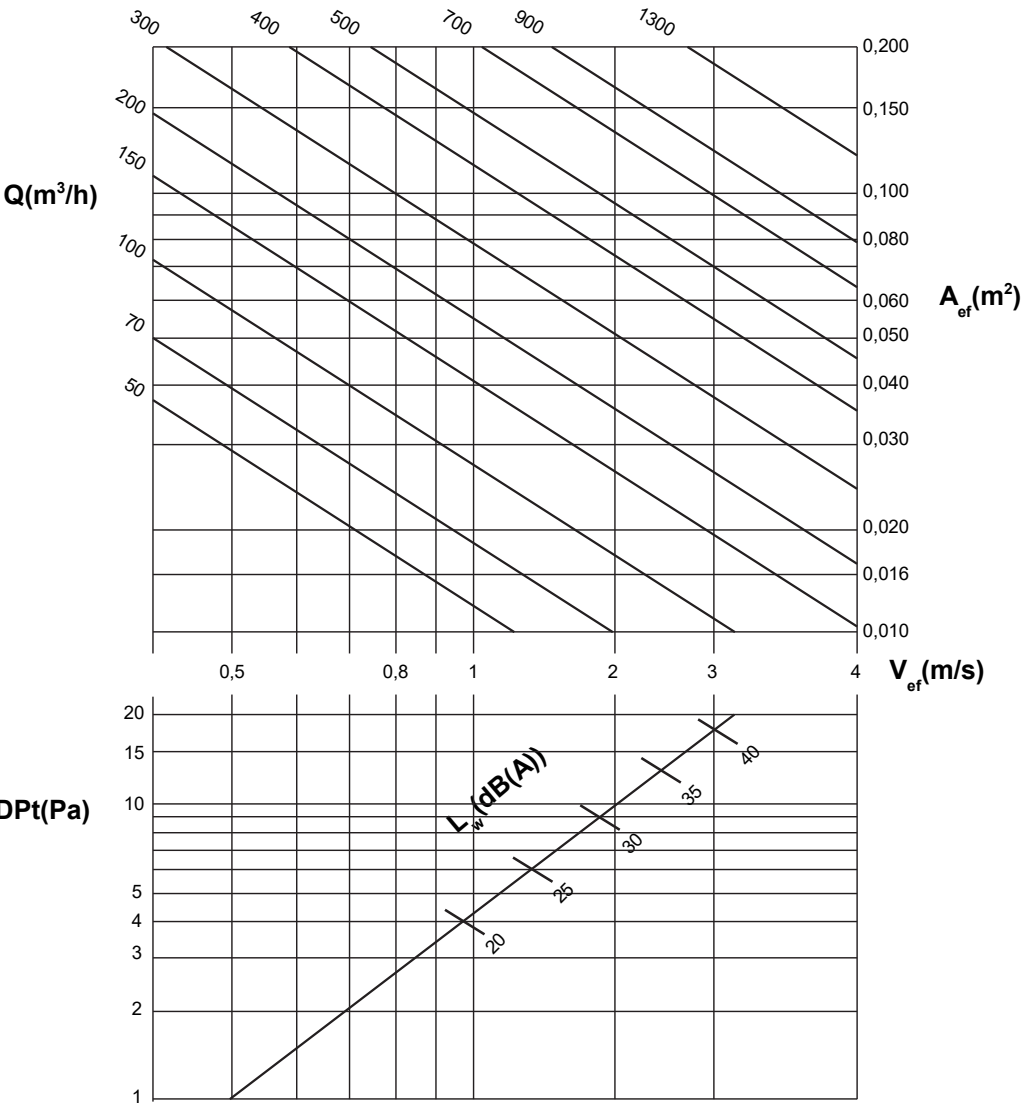
Q (m³/h)	LxH (mm)	A _{ef} (m²)	200x100	300x100	400x100	500x100	300x150	600x100	400x150	500x150	400x200	600x150	500x200	400x250	600x200	500x250	400x300	600x250	500x300	600x300	500x400	600x400
			0,010	0,016	0,021	0,026	0,033	0,039	0,043	0,056	0,067	0,086	0,092	0,122	0,154							
50	Lw(dB(A)) ΔP _t (Pa)		27 6	17 3																		
70	Lw(dB(A)) ΔP _t (Pa)		34 12	26 6	20 4																	
100	Lw(dB(A)) ΔP _t (Pa)			35 13	29 8	20 4	- 3															
150	Lw(dB(A)) ΔP _t (Pa)				39 18	30 9	27 7	22 5	20 4													
200	Lw(dB(A)) ΔP _t (Pa)					38 17	34 13	29 9	28 7	21 4												
250	Lw(dB(A)) ΔP _t (Pa)						39 18	34 13	32 10	27 7	21 4											
300	Lw(dB(A)) ΔP _t (Pa)							38 17	37 15	29 8	27 7	19 4	- 3									
350	Lw(dB(A)) ΔP _t (Pa)								42 22	35 13	29 8	24 6	22 5									
400	Lw(dB(A)) ΔP _t (Pa)									40 18	36 14	29 8	27 7	19 4								
500	Lw(dB(A)) ΔP _t (Pa)											43 25	35 13	32 10	26 6	- 3						
600	Lw(dB(A)) ΔP _t (Pa)												39 19	37 15	29 8	21 4						
700	Lw(dB(A)) ΔP _t (Pa)													42 20	33 12	27 7						
800	Lw(dB(A)) ΔP _t (Pa)																36 14	29 8				
900	Lw(dB(A)) ΔP _t (Pa)																40 19	31 9				
1000	Lw(dB(A)) ΔP _t (Pa)																				34 13	
1200	Lw(dB(A)) ΔP _t (Pa)																				39 18	

• Lw(dB(A)) incl. room attenuation 5dB(A)

TR-D

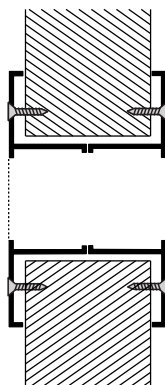
Technical data

		A _{ef} (m²)							
H (mm)	600	-	-	-	-	-	-	0,216	0,285
	500	-	-	-	-	-	0,149	0,178	0,238
	450	-	-	-	-	-	0,135	0,162	0,216
	400	-	-	-	-	0,096	0,122	0,154	0,194
	350	-	-	-	0,068	0,084	0,105	0,126	0,168
	300	-	-	0,049	0,056	0,065	0,086	0,092	0,121
	250	-	0,030	0,041	0,047	0,056	0,068	0,086	0,112
	200	0,020	0,024	0,029	0,036	0,043	0,056	0,068	0,086
	150	0,014	0,017	0,025	0,029	0,033	0,039	0,057	0,066
	100	0,010	0,013	0,016	0,019	0,021	0,027	0,033	0,043
		200	250	300	350	400	500	600	800
		L (mm)							



TR-D

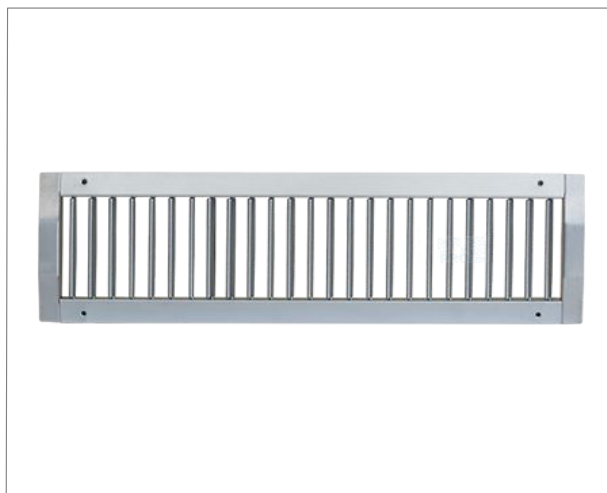
Mounting / Fixing



Fixing with visible screws (**standard**).
Screws are supplied at the same color as grille.

Different fixing systems are available (under certain commercial conditions).
(details in **Fixing systems for grilles / diffusers** chapter)

SD-S



Specifications

Grille with one row of vertical blades, individually adjustable.
Specially designed for mounting on circular ducts.

Used for exhaust, supply or recirculation, in ventilation systems.

Material

Galvanised steel frame.
Aluminium blades.

Finish

Standard finish: galvanised steel / natural aluminium.

Mounting / Fixing

Mounting on circular ducts.
Fixing with visible screws (countersunk hole in frame).

Optional accessories

Sliding damper - **DGS** (extra cost)
Opposed blade damper - **OBD** (extra cost).

Order code: **SD-S** **aaa x bbb + ***

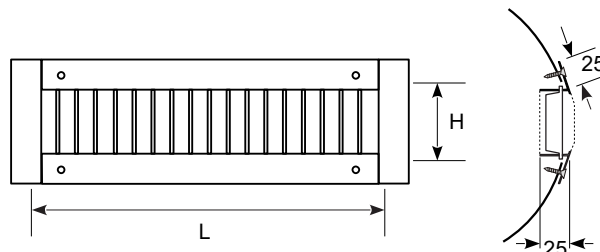
Product code

duct opening length L (mm)

duct opening height H (mm)

* optional accessories

Technical data



LxH - opening hole size according to codification
Grille neck size: (L-15) x (H-15)

Standard sizes

LxH	Ød duct min.-max.	Q (m³/h) @ V _{gr} = 3.5 (m/s)
225x75	160-315	130
325x75	160-315	175
425x75	160-315	240
525x75	160-315	300
625x75	160-315	360
825x75	160-315	480
325x125	315-500	330
425x125	315-500	440
525x125	315-500	540
625x125	315-500	650
825x125	315-500	870
1025x125	315-500	1080
1225x125	315-500	1300
425x175	400-710	650
525x175	400-710	820
625x175	400-710	970
825x175	400-710	1300
1025x175	400-710	1600
1225x175	400-710	1940
625x225	500-900	1270
825x225	500-900	1680
1025x225	500-900	2100
1225x225	500-900	2530

There are no other sizes available.

SD-S

Selection table

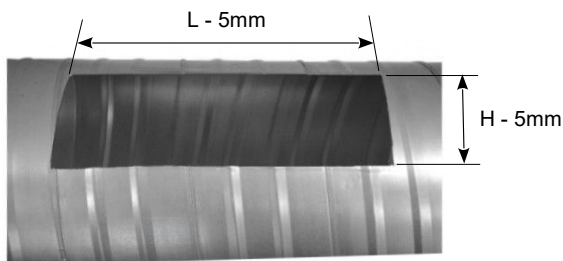
Q (m³/h)	LxH (mm) A _{ef} (m²)	225x75	325x75	425x75	525x75	625x75	825x75	325x125	425x125	525x125	625x125	825x125	1025x125	1225x125	425x175	525x175	625x175	825x175	1025x175	1225x175	625x225	825x225	1025x225	1225x225
		0,008	0,011	0,015	0,018	0,023	0,030	0,021	0,027	0,034	0,041	0,056	0,069	0,084	0,038	0,047	0,058	0,077	0,095	0,116	0,082	0,108	0,136	0,164
100	Lt(m) Lw(dB(A)) ΔPt(Pa)	3.8 16 3																						
150	Lt(m) Lw(dB(A)) ΔPt(Pa)	5.9 24 6	4.3 16 3	3.7 15 3																				
200	Lt(m) Lw(dB(A)) ΔPt(Pa)	7.6 27 8	5.9 23 5	5.6 22 5	5.5 19 4																			
250	Lt(m) Lw(dB(A)) ΔPt(Pa)		7.7 28 8	6.8 27 8	6.5 24 5																			
300	Lt(m) Lw(dB(A)) ΔPt(Pa)			10.5 32 11	8.0 28 7	7.0 22 4		7.0 23 4																
400	Lt(m) Lw(dB(A)) ΔPt(Pa)				11.3 32 11	8.6 28 6	8.2 24 5	8.8 29 7	8.5 26 6	5.9 21 4														
500	Lt(m) Lw(dB(A)) ΔPt(Pa)					12.2 32 8	11.3 29 6	12.4 32 9	11.5 30 7	7.0 27 6	6.8 24 5				6.9 25 6									
600	Lt(m) Lw(dB(A)) ΔPt(Pa)					14.8 35 12	13.1 33 10	15.0 36 13	13.3 34 12	10.0 31 7	8.6 29 6	6.8 24 4			8.6 30 7	7.4 26 5	6.8 22 4							
800	Lt(m) Lw(dB(A)) ΔPt(Pa)						15.7 39 14			12.2 37 11	11.5 31 10	8.8 26 6	7.0 23 4	6.8 21 4	11.8 32 10	9.7 27 8	8.7 25 5	7.0 23 4				6.8 21 4		
1000	Lt(m) Lw(dB(A)) ΔPt(Pa)										13.5 40 15	11.5 33 8	10.8 30 6	9.0 27 5	13.7 41 16	12.2 35 11	11.3 32 7	10.0 29 6	8.6 24 4	7.7 21 5	9.0 27 5	8.1 23 4		
1200	Lt(m) Lw(dB(A)) ΔPt(Pa)											14.8 41 14	13.0 30 9	11.3 30 6		15.5 43 16	14.6 38 14	11.7 32 8	10.8 29 6	10.4 25 5	11.3 30 7	10.7 27 6	8.3 21 4	
1500	Lt(m) Lw(dB(A)) ΔPt(Pa)												14.4 39 10	13.2 35 8				15.2 42 15	13.3 33 6	11.7 31 8	13.2 35 8	12.6 32 6	10.8 27 5	8.8 25 4
1800	Lt(m) Lw(dB(A)) ΔPt(Pa)																		15.0 41 14	13.5 33 7	16.0 39 10	14.3 36 9	12.6 30 6	11.7 27 5
2000	Lt(m) Lw(dB(A)) ΔPt(Pa)																			14.8 36 9	17.2 44 17	15.5 39 13	14.0 32 7	12.6 29 6
2500	Lt(m) Lw(dB(A)) ΔPt(Pa)																							14.4 33 8
3000	Lt(m) Lw(dB(A)) ΔPt(Pa)																							16.8 41 14

Data is valid for:

- deflection 0°, without damper
- L_w(dB(A)) without room attenuation
- Temperature difference Dt=0K

SD-S

Mounting / Fixing

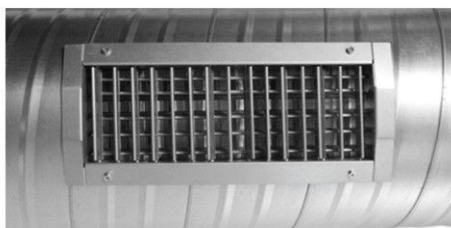


1. Cut the opening in circular duct

(example: for grille 525x125 cut hole 520x120)



2. Deburr the sharp edges and insert the grille in opening.



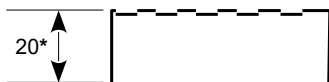
3. Fix the grille with adequate screws.
(steel self drilling screws)

Optional accessories



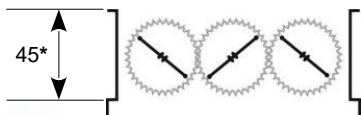
DGS - Sliding damper (extra cost).
(not available for all sizes - see DGS datasheet)

*to be added to grille height



OBD - Opposed blade damper (extra cost).

*to be added to grille height



DD-S



Specifications

Grille with two rows of vertical and horizontal blades, individually adjustable.
Specially designed for mounting on circular ducts.

Used for exhaust, supply or recirculation, in ventilation systems.

Material

Galvanised steel frame.
Aluminium blades.

Finish

Standard finish: galvanised steel / natural aluminium.

Mounting / Fixing

Mounting on circular ducts.
Fixing with visible screws (countersunk hole in frame).

Optional accessories

Sliding damper - **DGS** (extra cost)
Opposed blade damper - **OBD** (extra cost).

Order code: **DD-S** **aaa x bbb + ***

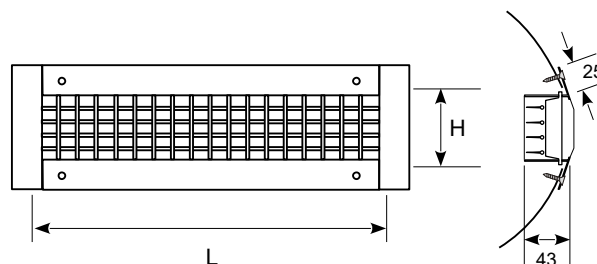
Product code

duct opening length L (mm)

duct opening height H (mm)

* optional accessories

Technical data



LxH - opening hole size according to codification
Grille neck size: (L-15) x (H-15)

Standard sizes

LxH	Ød duct min.-max.	Q (m³/h) @ V _{gr} = 3.5 (m/s)
225x75	160-315	100
325x75	160-315	150
425x75	160-315	200
525x75	160-315	240
625x75	160-315	290
825x75	160-315	390
325x125	315-500	260
425x125	315-500	350
525x125	315-500	440
625x125	315-500	530
825x125	315-500	700
1025x125	315-500	880
1225x125	315-500	1100
425x175	400-710	480
525x175	400-710	600
625x175	400-710	730
825x175	400-710	970
1025x175	400-710	1200
1225x175	400-710	1450
625x225	500-900	1030
825x225	500-900	1370
1025x225	500-900	1710
1225x225	500-900	2050

There are no other sizes available.

DD-S

Selection table

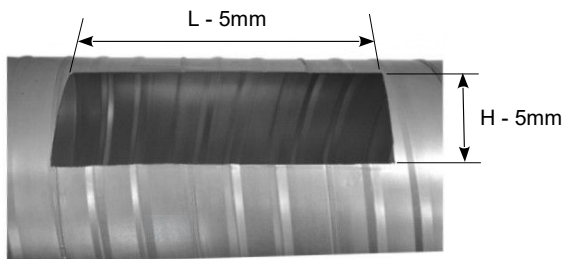
Q (m³/h)	LxH (mm) A _{ef} (m²)	225x75	325x75	425x75	525x75	625x75	825x75	325x125	425x125	525x125	625x125	825x125	1025x125	1225x125	425x175	525x175	625x175	825x175	1025x175	1225x175	625x225	825x225	1025x225	1225x225
		0,008	0,011	0,015	0,018	0,023	0,030	0,021	0,027	0,034	0,041	0,056	0,069	0,084	0,038	0,047	0,058	0,077	0,095	0,116	0,082	0,108	0,136	0,164
100	Lt(m) Lw(dB(A)) ΔPt(Pa)	4.2 18 4																						
150	Lt(m) Lw(dB(A)) ΔPt(Pa)	6.5 27 8	4.8 18 3	4.1 16 3																				
200	Lt(m) Lw(dB(A)) ΔPt(Pa)		6.6 25 6	6.2 24 4	6.1 21 4																			
250	Lt(m) Lw(dB(A)) ΔPt(Pa)		8.6 31 10	7.6 30 10	7.2 27 6																			
300	Lt(m) Lw(dB(A)) ΔPt(Pa)			11.6 35 14	8.9 31 9	7.8 24 4		8.0 25 5																
400	Lt(m) Lw(dB(A)) ΔPt(Pa)				12.6 36 14	9.6 31 8	9.1 27 6	9.8 32 9	9.5 29 8	6.5 23 4														
500	Lt(m) Lw(dB(A)) ΔPt(Pa)					13.6 35 10	12.6 32 8	13.8 36 11	12.8 33 9	8.0 30 7	7.6 27 6				7.7 28 7									
600	Lt(m) Lw(dB(A)) ΔPt(Pa)					16.4 39 15	14.6 37 13	16.7 40 16	14.8 38 15	11.0 34 9	9.5 32 8	7.6 26 4			9.6 33 8	8.2 29 6	7.5 25 4							
800	Lt(m) Lw(dB(A)) ΔPt(Pa)						17.4 43 17			13.5 41 14	12.8 32 12	9.8 29 7	7.8 25 4	7.5 23 4	13.0 33 13	10.8 30 10	9.7 28 6	7.7 25 5			7.5 23 4			
1000	Lt(m) Lw(dB(A)) ΔPt(Pa)									15.0 44 19	12.8 37 10	12.0 33 8	10.0 30 6	15.2 45 20	13.5 39 14	12.6 36 9	11.0 32 7	9.5 27 4	8.5 23 4	10.0 30 6	9.0 25 5			
1200	Lt(m) Lw(dB(A)) ΔPt(Pa)										16.5 45 18	14.5 38 11	12.5 33 8		17.2 48 20	16.2 42 17	13.0 35 10	12.0 32 7	11.6 28 6	12.5 33 8	11.8 30 7	9.2 23 5		
1500	Lt(m) Lw(dB(A)) ΔPt(Pa)											16.0 42 12	14.7 39 10				16.8 47 19	14.8 37 8	13.0 34 7	14.7 39 10	14.0 35 8	12.0 30 6	9.8 28 5	
1800	Lt(m) Lw(dB(A)) ΔPt(Pa)																	16.8 45 17	15.0 37 9		15.9 40 11	14.0 33 7	13.0 30 6	
2000	Lt(m) Lw(dB(A)) ΔPt(Pa)																					15.5 36 9	14.0 32 7	
2500	Lt(m) Lw(dB(A)) ΔPt(Pa)																						16.0 37 10	
3000	Lt(m) Lw(dB(A)) ΔPt(Pa)																						18.7 45 18	

Data is valid for:

- deflection 0°, without damper
- L_w(dB(A)) without room attenuation
- Temperature difference Dt=0K

DD-S

Mounting / Fixing

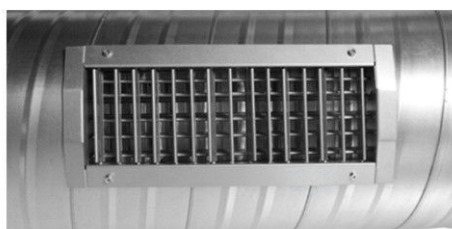


1. Cut the opening in circular duct

(example: for grille 525x125 cut hole 520x120)



2. Deburr the sharp edges and insert the grille in opening.



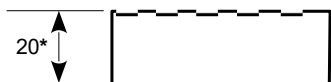
3. Fix the grille with adequate screws.
(steel self drilling screws)

Optional accessories



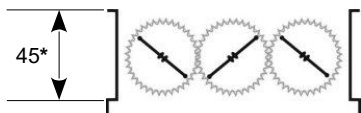
DGS - Sliding damper (extra cost).
(not available for all sizes - see DGS datasheet)

*to be added to grille height



OBD - Opposed blade damper (extra cost).

*to be added to grille height



SD-R



Specifications

Grille with one row of vertical blades, individually adjustable.
Specially designed for mounting on rectangular ducts.
Used for exhaust, supply or recirculation, in ventilation systems.

Material

Galvanised steel frame.
Aluminium blades.

Finish

Standard finish: galvanised steel / natural aluminium.

Mounting / Fixing

Mounting on rectangular ducts.
Fixing with visible screws (countersunk hole in frame).

Optional accessories

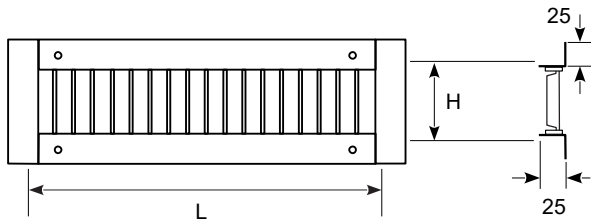
Opposed blade damper - **OBD** (extra cost).

Order code: **SD-R** **aaa x bbb** + *

Product code _____
duct opening length L (mm) _____
duct opening height H (mm) _____

* optional accessories

Technical data



LxH - opening hole size according to codification
Grille neck size: (L-15) x (H-15)

Standard sizes

LxH	Q (m³/h) @ V _{ef} = 3.5 (m/s)
225x75	130
325x75	175
425x75	240
525x75	300
625x75	360
825x75	480
325x125	330
425x125	440
525x125	540
625x125	650
825x125	870
1025x125	1080
1225x125	1300
425x175	650
525x175	820
625x175	970
825x175	1300
1025x175	1600
1225x175	1940
625x225	1270
825x225	1680
1025x225	2100
1225x225	2530

There are no other sizes available.

SD-R

Selection table

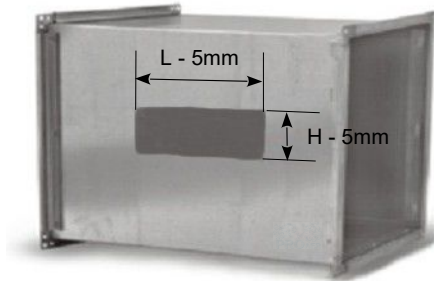
Q (m³/h)	LxH (mm) A _{ef} (m²)	225x75	325x75	425x75	525x75	625x75	825x75	325x125	425x125	525x125	625x125	825x125	1025x125	1225x125	425x175	525x175	625x175	825x175	1025x175	1225x175	625x225	825x225	1025x225	1225x225
		0,008	0,011	0,015	0,018	0,023	0,030	0,021	0,027	0,034	0,041	0,056	0,069	0,084	0,038	0,047	0,058	0,077	0,095	0,116	0,082	0,108	0,136	0,164
100	Lt(m) Lw(dB(A)) ΔPt(Pa)	3.8 16 3																						
150	Lt(m) Lw(dB(A)) ΔPt(Pa)	5.9 24 6	4.3 16 3	3.7 15 3																				
200	Lt(m) Lw(dB(A)) ΔPt(Pa)	7.6 27 8	5.9 23 5	5.6 22 5	5.5 19 4																			
250	Lt(m) Lw(dB(A)) ΔPt(Pa)		7.7 28 8	6.8 27 8	6.5 24 5																			
300	Lt(m) Lw(dB(A)) ΔPt(Pa)			10.5 32 11	8.0 28 7	7.0 22 4		7.0 23 4																
400	Lt(m) Lw(dB(A)) ΔPt(Pa)				11.3 32 11	8.6 28 6	8.2 24 5	8.8 29 7	8.5 26 6	5.9 21 4														
500	Lt(m) Lw(dB(A)) ΔPt(Pa)					12.2 32 8	11.3 29 6	12.4 32 9	11.5 30 7	7.0 27 6	6.8 24 5				6.9 25 6									
600	Lt(m) Lw(dB(A)) ΔPt(Pa)					14.8 35 12	13.1 33 10	15.0 36 13	13.3 34 12	10.0 31 7	8.6 29 6	6.8 24 4			8.6 30 7	7.4 26 5	6.8 22 4							
800	Lt(m) Lw(dB(A)) ΔPt(Pa)						15.7 39 14			12.2 37 11	11.5 31 10	8.8 26 6	7.0 23 4	6.8 21 4	11.8 32 10	9.7 27 8	8.7 25 5	7.0 23 4				6.8 21 4		
1000	Lt(m) Lw(dB(A)) ΔPt(Pa)										13.5 40 15	11.5 33 8	10.8 30 6	9.0 27 5	13.7 41 16	12.2 35 11	11.3 32 7	10.0 29 6	8.6 24 4	7.7 21 4	9.0 27 5	8.1 23 4		
1200	Lt(m) Lw(dB(A)) ΔPt(Pa)											14.8 41 14	13.0 30 9	11.3 30 6		15.5 43 16	14.6 38 14	11.7 32 8	10.8 29 6	10.4 25 5	11.3 30 7	10.7 27 6	8.3 21 4	
1500	Lt(m) Lw(dB(A)) ΔPt(Pa)												14.4 39 10	13.2 35 8				15.2 42 15	13.3 33 6	11.7 31 6	13.2 35 8	12.6 32 6	10.8 27 5	8.8 25 4
1800	Lt(m) Lw(dB(A)) ΔPt(Pa)																		15.0 41 14	13.5 33 7	16.0 39 10	14.3 36 9	12.6 30 6	11.7 27 5
2000	Lt(m) Lw(dB(A)) ΔPt(Pa)																			14.8 36 9	17.2 44 17	15.5 39 13	14.0 32 7	12.6 29 6
2500	Lt(m) Lw(dB(A)) ΔPt(Pa)																							14.4 33 8
3000	Lt(m) Lw(dB(A)) ΔPt(Pa)																							16.8 41 14

Data is valid for:

- deflection 0°, without damper
- L_w(dB(A)) without room attenuation
- Temperature difference Dt=0K

SD-R

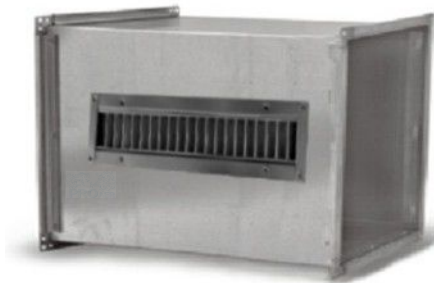
Mounting / Fixing



1. Cut the opening in rectangular duct

(example: for grille 525x125 cut hole 520x120)

2. Deburr the sharp edges and insert the grille in opening.



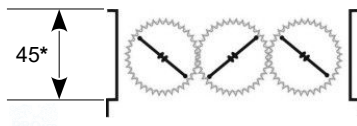
3. Fix the grille with adequate screws.
(steel self drilling screws)

Optional accessories



OBD - Opposed blade damper (extra cost).

*to be added to grille height



DD-R



Specifications

Grille with two rows of vertical and horizontal blades, individually adjustable.
Specially designed for mounting on rectangular ducts.

Used for exhaust, supply or recirculation, in ventilation systems.

Material

Galvanised steel frame.
Aluminium blades.

Finish

Standard finish: galvanised steel / natural aluminium.

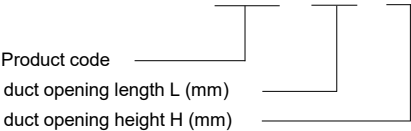
Mounting / Fixing

Mounting on rectangular ducts.
Fixing with visible screws (countersunk hole in frame).

Optional accessories

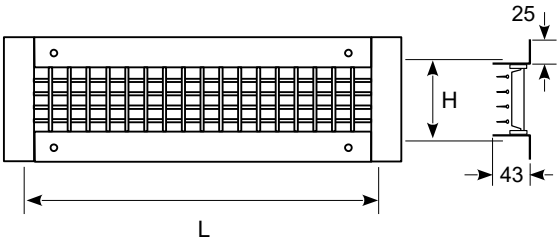
Opposed blade damper - **OBD** (extra cost).

Order code: **DD-R** **aaa x bbb + ***



* optional accessories

Technical data



LxH - opening hole size according to codification
Grille neck size: (L-15) x (H-15)

Standard sizes

LxH	Q (m³/h) @ V _{ef} = 3.5 (m/s)
225x75	100
325x75	150
425x75	200
525x75	240
625x75	290
825x75	390
325x125	260
425x125	350
525x125	440
625x125	530
825x125	700
1025x125	880
1225x125	1100
425x175	480
525x175	600
625x175	730
825x175	970
1025x175	1200
1225x175	1450
625x225	1030
825x225	1370
1025x225	1710
1225x225	2050

There are no other sizes available.

DD-R

Tabel de selectie

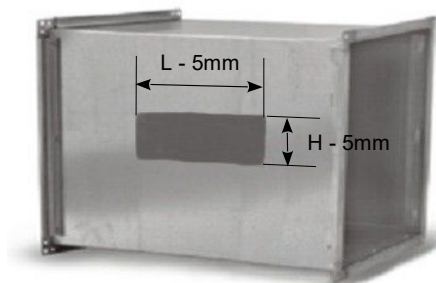
Q (m³/h)	LxH (mm) A _{ef} (m²)	225x75	325x75	425x75	525x75	625x75	825x75	325x125	425x125	525x125	625x125	825x125	1025x125	1225x125	425x175	525x175	625x175	825x175	1025x175	1225x175	625x225	825x225	1025x225	1225x225
		0,008	0,011	0,015	0,018	0,023	0,030	0,021	0,027	0,034	0,041	0,056	0,069	0,084	0,038	0,047	0,058	0,077	0,095	0,116	0,082	0,108	0,136	0,164
100	Lt(m) Lw(dB(A)) ΔPt(Pa)	4.2 18 4																						
150	Lt(m) Lw(dB(A)) ΔPt(Pa)	6.5 27 8	4.8 18 3	4.1 16 3																				
200	Lt(m) Lw(dB(A)) ΔPt(Pa)		6.6 25 6	6.2 24 4	6.1 21 4																			
250	Lt(m) Lw(dB(A)) ΔPt(Pa)		8.6 31 10	7.6 30 10	7.2 27 6																			
300	Lt(m) Lw(dB(A)) ΔPt(Pa)			11.6 35 14	8.9 31 9	7.8 24 4		8.0 25 5																
400	Lt(m) Lw(dB(A)) ΔPt(Pa)				12.6 36 14	9.6 31 8	9.1 27 6	9.8 32 9	9.5 29 8	6.5 23 4														
500	Lt(m) Lw(dB(A)) ΔPt(Pa)					13.6 35 10	12.6 32 8	13.8 36 11	12.8 33 9	8.0 30 7	7.6 27 6				7.7 28 7									
600	Lt(m) Lw(dB(A)) ΔPt(Pa)					16.4 39 15	14.6 37 13	16.7 40 16	14.8 38 15	11.0 34 9	9.5 32 8	7.6 26 4			9.6 33 8	8.2 29 6	7.5 25 4							
800	Lt(m) Lw(dB(A)) ΔPt(Pa)						17.4 43 17			13.5 41 14	12.8 32 12	9.8 29 7	7.8 25 4	7.5 23 4	13.0 33 13	10.8 30 10	9.7 28 6	7.7 25 5			7.5 23 4			
1000	Lt(m) Lw(dB(A)) ΔPt(Pa)									15.0 44 19	12.8 37 10	12.0 33 8	10.0 30 6	15.2 45 20	13.5 39 14	12.6 36 9	11.0 32 7	9.5 27 4	8.5 23 4	10.0 30 6	9.0 25 5			
1200	Lt(m) Lw(dB(A)) ΔPt(Pa)										16.5 45 18	14.5 38 11	12.5 33 8		17.2 48 20	16.2 42 17	13.0 35 10	12.0 32 7	11.6 28 6	12.5 33 8	11.8 30 7	9.2 23 5		
1500	Lt(m) Lw(dB(A)) ΔPt(Pa)											16.0 42 12	14.7 39 10				16.8 47 19	14.8 37 8	13.0 34 7	14.7 39 10	14.0 35 8	12.0 30 6	9.8 28 5	
1800	Lt(m) Lw(dB(A)) ΔPt(Pa)																	16.8 45 17	15.0 37 9		15.9 40 11	14.0 33 7	13.0 30 6	
2000	Lt(m) Lw(dB(A)) ΔPt(Pa)																					15.5 36 9	14.0 32 7	
2500	Lt(m) Lw(dB(A)) ΔPt(Pa)																						16.0 37 10	
3000	Lt(m) Lw(dB(A)) ΔPt(Pa)																						18.7 45 18	

Data is valid for:

- deflection 0°, without damper
- L_w(dB(A)) without room attenuation
- Temperature difference Dt=0K

DD-R

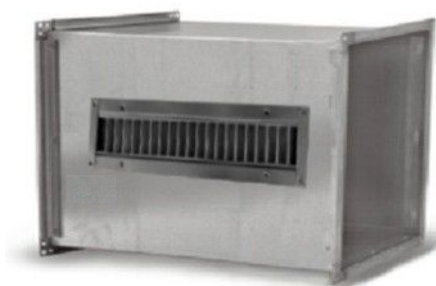
Mounting / Fixing



1. Cut the opening in rectangular duct

(example: for grille 525x125 cut hole 520x120)

2. Deburr the sharp edges and insert the grille in opening.



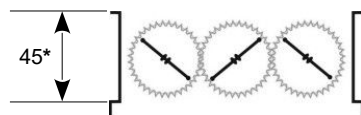
3. Fix the grille with adequate screws.
(steel self drilling screws)

Optional accessories



OBD - Opposed blade damper (extra cost).

*to be added to grille height



RS



Specifications

Perforated galvanised steel diffuser.
Specially designed for mounting on circular ducts.

Used for exhaust, supply or recirculation, in ventilation systems.

Material

Galvanised steel

Finish

Natural galvanised steel

Mounting / Fixing

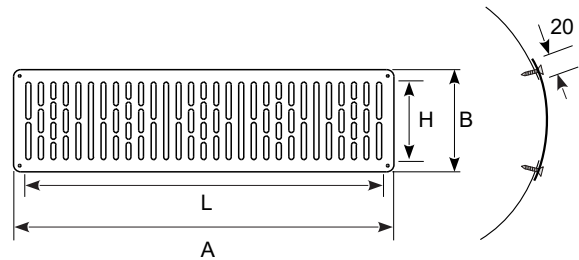
Mounting on circular ducts.
Fixing with visible screws (countersunk hole in frame).

Order code: **RS** **Øddd**

Product code _____
duct diameter Ød (mm) _____

For ducts 160~200 grille size is 575x75 mm
For ducts 250~355 grille size is 575x125 mm

Technical data



LxH - opening hole size in duct
AxB - frame external size

Standard sizes

LxH	AxB	Ød duct min.~max.	Q (m³/h) @ V _{ef} =3.5 (m/s)
575x75	615x115	160-200	250
575x125	615x165	250-355	450

There are no other sizes available.

RD



Specifications

Perforated galvanised steel diffuser.
Specially designed for mounting on rectangular ducts.
Used for exhaust, supply or recirculation, in ventilation systems.

Material

Galvanised steel

Finish

Natural galvanised steel

Mounting / Fixing

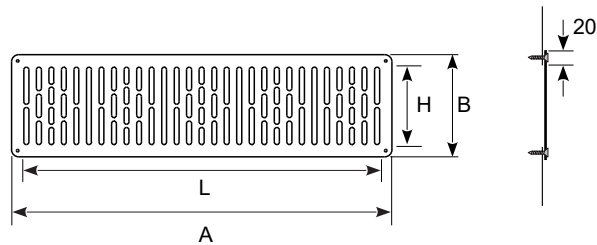
Mounting on circular ducts.
Fixing with visible screws (countersunk hole in frame).

Order code: **RD** **aaa x bbb**

Product code

opening size LxH (mm)

Technical data



LxH - opening hole size in duct
AxB - frame external size

Standard sizes

LxH	AxB	Q (m³/h) @ V _{eff} = 3.5 (m/s)
575x75	615x115	250
575x125	615x165	450

There are no other sizes available.

External louvre

EXT

[Back to Content](#)



Specifications

External weather louvre with fixed blades, inclined at 45°, with special rain prevention profile.
Supplied standard with wire mesh (eye according to size).
Free area approx. 68%. Pitch 38 mm.

Used for air intake or exhaust, in ventilation systems.

Material

Aluminium.
Expanded galvanized steel mesh.

Finish

Standard finish: anodized aluminium.

Optional finishing:
- different RAL (extra cost)

Mounting / Fixing

Mounting on walls (outside), only in vertical position.
Fixing with visible screws (countersunk hole in frame)

Optional accessories

Plenum box – **PL** (extra cost).

Order code: **EXT** **aaa x bbb** **+***

Product code

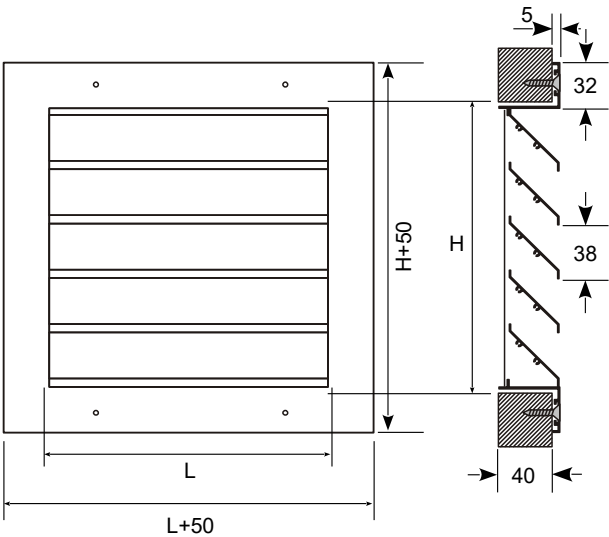
opening length L (mm)

opening height H (mm)

not specified - ALU (anodized aluminium)
RALxxxx - optional RAL code (extra cost)

* optional accessories

Technical data



LxH - opening hole size

Grille neck size: (L-10) x (H-10)

Standard sizes

L	H	Q (m³/h) @ V _{ef} 3,5 (m/s)
200	200	350
250	250	560
300	300	790
350	350	1080
400	400	1490
450	450	1880
500	500	2330
600	600	3350

Custom sizes

Custom sizes available (under certain commercial conditions),
between: LxH 100x100 mm ~ LxH 1000x1000 mm.

For dimensions larger than LxH 1000x1000 it is recommended
to use **EXT-L** type external louvre.

Note: External louvre **EXT** with sizes larger than LxH 1000x1000 mm it is manufactured
exclusively at the request and at the risk of the customer, without taking into account
eventual technical complaints (e.g. deformations).

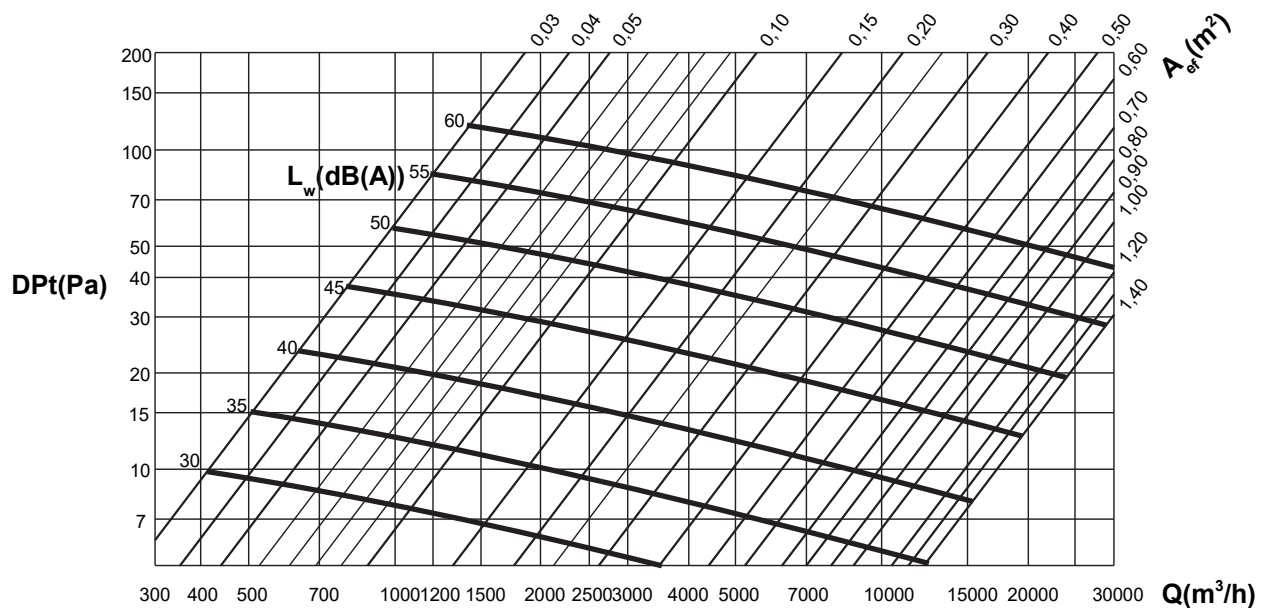
EXT

Selection table

Q (m³/h)	LxH (mm)	200x200	300x200	400x200	300x300	500x200	400x250	400x300	350x350	500x250	500x300	400x400	500x400	450x450	600x400	500x500	600x500	600x600
	A _{ef} (m²)	0,028	0,042	0,056	0,063	0,074	0,086	0,092	0,115	0,148	0,177	0,221	0,266					
300	Lw(dB(A))	23																
	ΔPt(Pa)	7																
400	Lw(dB(A))	29	24															
	ΔPt(Pa)	12	7															
500	Lw(dB(A))	37	30	20														
	ΔPt(Pa)	20	12	5														
700	Lw(dB(A))	43	36	32	29	25												
	ΔPt(Pa)	38	22	13	11	8												
1000	Lw(dB(A))		46	41	38	34	32	29										
	ΔPt(Pa)		48	28	21	15	12	9										
1200	Lw(dB(A))			44	42	38	37	35	28									
	ΔPt(Pa)			20	32	23	17	15	8									
1500	Lw(dB(A))				47	43	42	39	34	30								
	ΔPt(Pa)				48	34	28	23	13	8								
2000	Lw(dB(A))						48	45	42	37	33	29						
	ΔPt(Pa)						48	35	25	15	11	7						
2500	Lw(dB(A))								46	41	38	34	31					
	ΔPt(Pa)								36	22	16	11	8					
3000	Lw(dB(A))									46	42	38	35					
	ΔPt(Pa)									34	23	16	11					
4000	Lw(dB(A))										48	44	42					
	ΔPt(Pa)										41	28	20					
5000	Lw(dB(A))											50	46					
	ΔPt(Pa)											45	32					
7000	Lw(dB(A))												55					
	ΔPt(Pa)												60					

Technical data

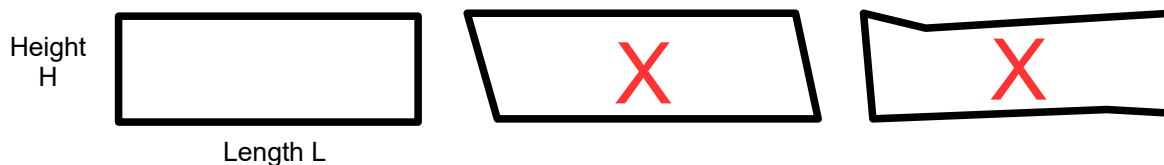
		A _{ef} (m²)															
H (mm)	1000	-	-	-	-	-	-	0,369	0,443	0,590	0,738	0,886	1,107	1,328	1,476		
	900	-	-	-	-	-	-	0,332	0,399	0,531	0,664	0,797	0,996	1,196	1,328		
	800	-	-	-	-	-	-	0,295	0,354	0,472	0,590	0,708	0,886	1,063	1,181		
	700	-	-	-	-	-	-	0,258	0,310	0,413	0,517	0,620	0,775	0,930	1,033		
	600	-	-	-	-	-	-	0,221	0,266	0,354	0,443	0,531	0,664	0,797	0,886		
	500	-	-	-	-	-	-	0,185	0,221	0,295	0,369	0,443	0,554	0,664	0,738		
	450	-	-	-	-	-	0,149	0,166	0,199	0,266	0,332	0,399	0,498	-	-		
	400	-	-	-	-	0,118	0,133	0,148	0,177	0,236	0,295	0,354	0,443	-	-		
	350	-	-	-	0,086	0,098	0,116	0,129	0,155	0,207	0,258	0,310	-	-	-		
	300	-	-	0,063	0,074	0,084	0,100	0,111	0,133	0,177	0,221	0,266	-	-	-		
	250	-	0,044	0,053	0,061	0,070	0,083	0,092	0,111	0,148	0,185	-	-	-	-		
	200	0,028	0,035	0,042	0,049	0,056	0,066	0,074	0,089	0,118	0,148	-	-	-	-		
		200	250	300	350	400	450	500	600	800	1000	1200	1500	1800	2000		
		L (mm)															



EXT

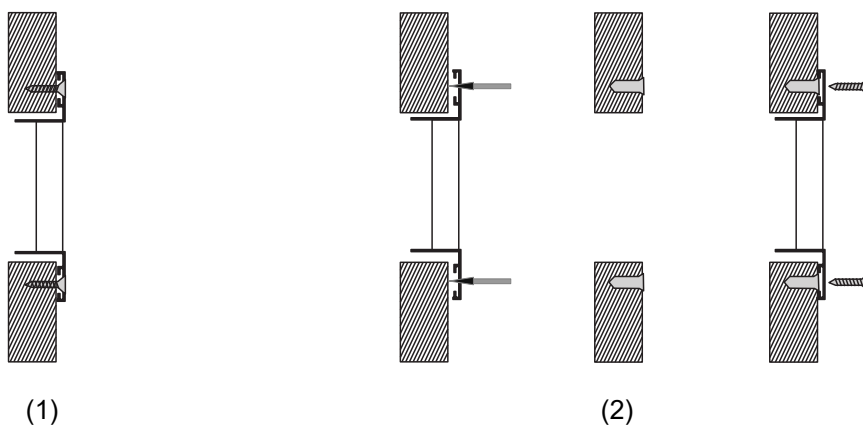
Mounting / Fixing

1: Measure opening hole and correct level differences and parallelism.
The maximum deviations allowed, both at parallelism and level difference, are +/- 5 mm.

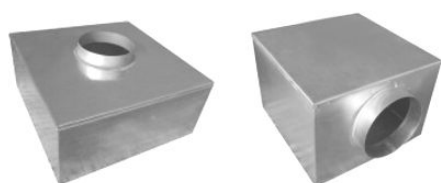


2: Fixing
In metal sandwich panel **(1)**, use self drilling metal screws.

In concrete / brick structure **(2)** etc., mark the drilling hole and use appropriate plugs / anchors (not included).



Optional accessories



PL – Plenum box (extra cost)

EXT-L



Specifications

External weather louvre with fixed blades, inclined at 45°, with special rain prevention profile.
Supplied standard with wire mesh (eye according to size).
Free area approx. 68%. Pitch 70 mm.
Robust construction for large sizes louvres.

Used for air intake or exhaust, in ventilation systems.

Material

Aluminium.
Galvanized steel wire mesh.

Finish

Standard finish: natural aluminium.

Optional finishing:
- different RAL (extra cost)

Mounting / Fixing

Mounting on walls (outside), only in vertical position.
Fixing with visible screws (countersunk hole in frame)

Optional accessories

Plenum box – **PL** (extra cost).

Order code: **EXT-L** **aaa x bbb**

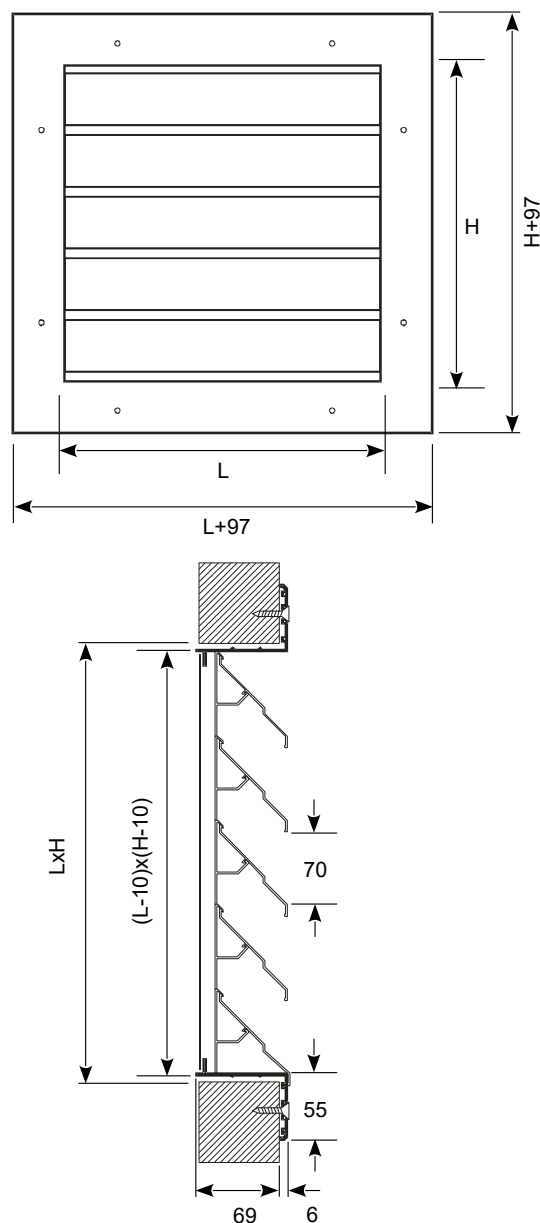
Product code

opening length L (mm)

opening height H (mm)

not specified - ALU (natural aluminium)
RALxxxx - optional RAL code

Technical data



LxH - opening hole size
Grille neck size: (L-10) x (H-10)

Minimum wall thickness: 70 mm

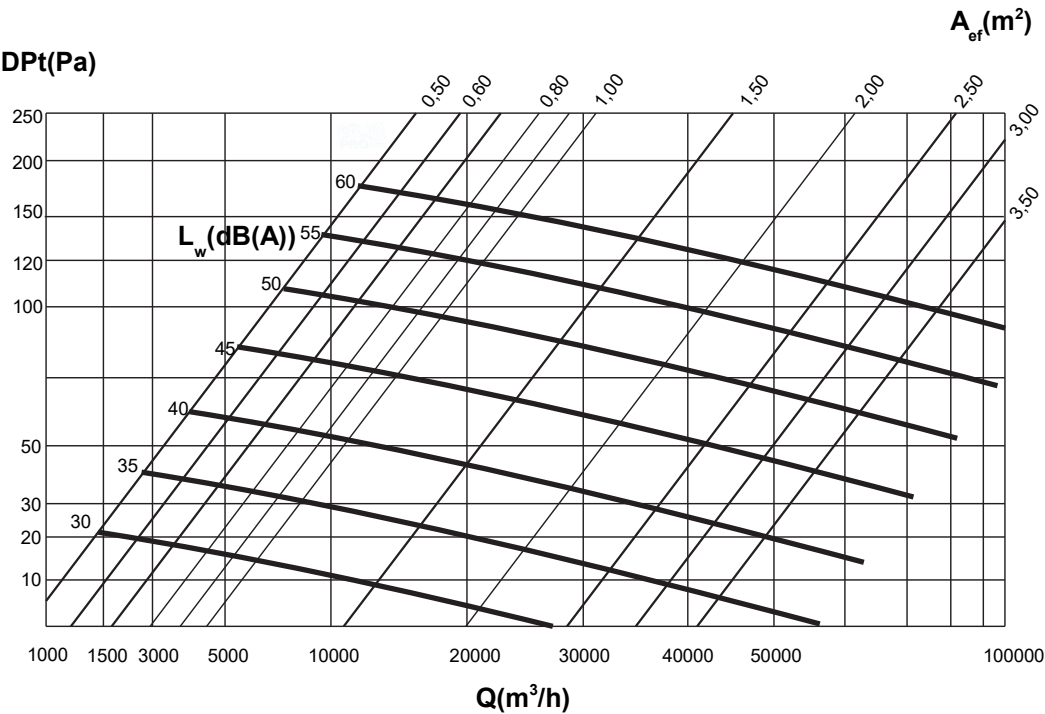
Available sizes

Can be manufactured with custom sizes between:
LxH 1000x1000 mm ~ LxH 3000x2000 mm (opening size).

EXT-L

Selection table

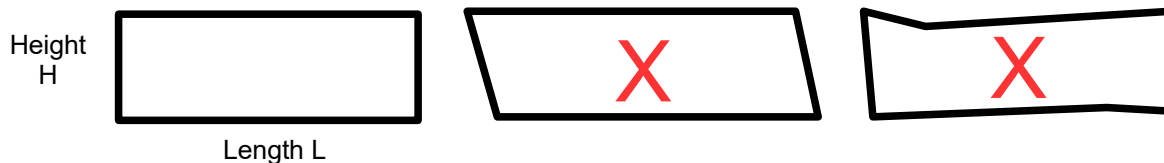
		A _{ef} (m²)							
H (mm)	2000	1,18	1,42	1,77	2,12	2,36	2,95	3,54	
	1800	1,06	1,27	1,59	1,91	2,12	2,66	3,19	
	1500	0,89	1,06	1,33	1,59	1,77	2,21	2,66	
	1200	0,71	0,85	1,06	1,27	1,42	1,77	2,12	
	1000	0,58	0,69	0,89	1,06	1,18	1,47	1,77	
		1000	1200	1500	1800	2000	2500	3000	
L (mm)									



EXT-L

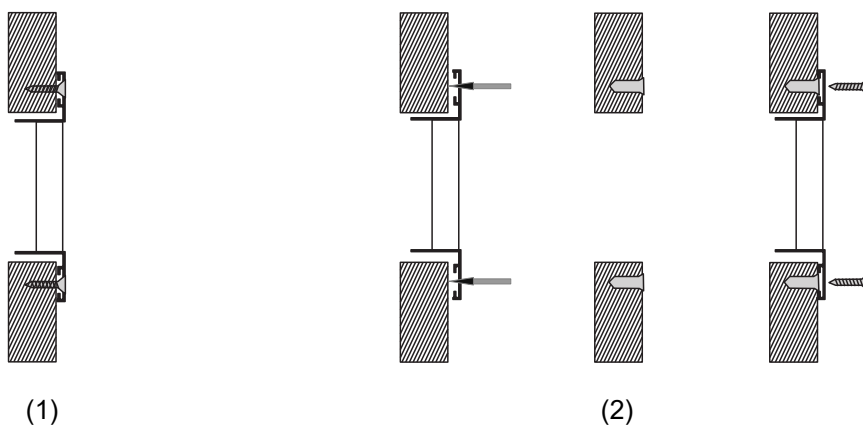
Mounting / Fixing

1: Measure opening hole and correct level differences and parallelism.
The maximum deviations allowed, both at parallelism and level difference, are +/- 5 mm.

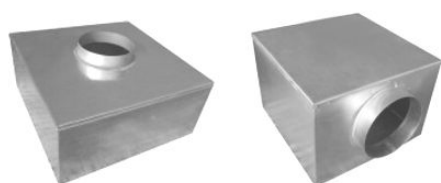


2: Fixing
In metal sandwich panel **(1)**, use self drilling metal screws.

In concrete / brick structure **(2)** etc., mark the drilling hole and use appropriate plugs / anchors (not included).



Optional accessories



PL – Plenum box (extra cost)

Circular external louvre

XC

[Back to Content](#)



Specifications

External weather louvre with fixed blades, inclined at 45°, with special rain prevention profile.
Supplied standard with wire mesh.
Free area approx. 68%. Pitch 20 mm.

Used for air intake or exhaust, in ventilation systems.

Material

Cast aluminium alloy.
Galvanized steel wire mesh.

Finish

Standard finish: natural aluminium.

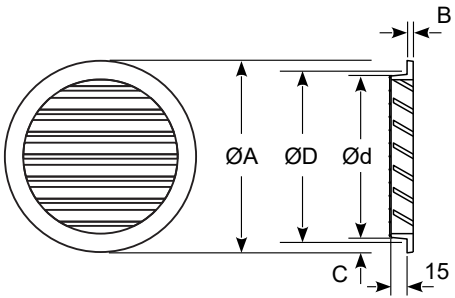
Optional finishing:
- different RAL (extra cost)

Mounting / Fixing

Mounting on walls (outside), only in vertical position.
Fixing with industrial contact adhesive (not included).

Order code:	XC	aaa	
Product code			
opening size Ø (mm)			
not specified - ALU (natural aluminium)			
RALxxxx - optional RAL code			

Technical data



ØD - opening hole diameter

Standard sizes

ØD	Ød	ØA	B	C	Q (m³/h) @ V _{ef} 4,5 (m/s)
100	98	125	5	12,5	70
125	123	150	5	12,5	110
160	158	185	5	12,5	190
200	198	225	5	12,5	320
250	248	275	5	12,5	500
315	313	350	7	17,5	760

There are no other sizes available.

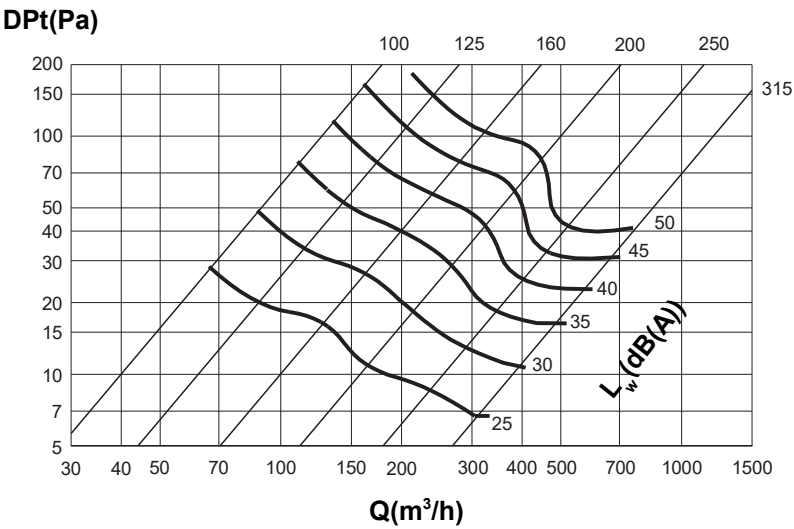
Circular external louvre

XC

[Back to Content](#)

Technical data

ØD	A _{ef} (m ²)	Q (m ³ /h) @ V _{ef} 2,5 (m/s)	Q (m ³ /h) @ V _{ef} 4,5 (m/s)
100	0,0044	40	70
125	0,0068	60	110
160	0,0120	110	190
200	0,0200	180	320
250	0,0310	280	500
315	0,0470	420	760



Mounting / Fixing



Fixing with industrial contact adhesive (**standard**).
(Not supplied. Should be purchased by installer)

Circular external louvre

XC-L

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Specifications

External weather louvre with fixed blades, inclined at 45°, with special rain prevention profile.
 Supplied standard with wire mesh.
 Free area approx. 68%. Pitch 40 mm.

Used for air intake or exhaust, in ventilation systems.

Material

Steel.
 Expanded galvanized steel mesh.

Finish

Standard finish: gray RAL9006.

Optional finishing:
 - different RAL (extra cost)

Mounting / Fixing

Mounting on walls (outside), only in vertical position.
 Fixing with visible screws (countersunk holes in frame).

Order code:

XC-L

aaa

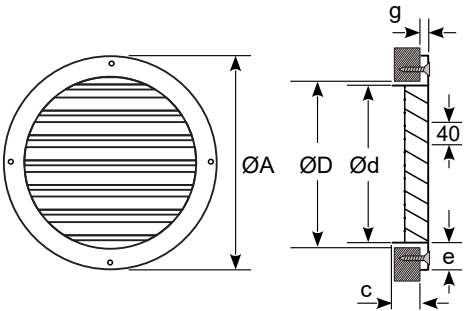
Product code

opening size Ø (mm)

not specified - grey RAL9006 (standard)

RALxxxx - optional RAL code

Technical data



ØD - opening hole diameter

Standard sizes

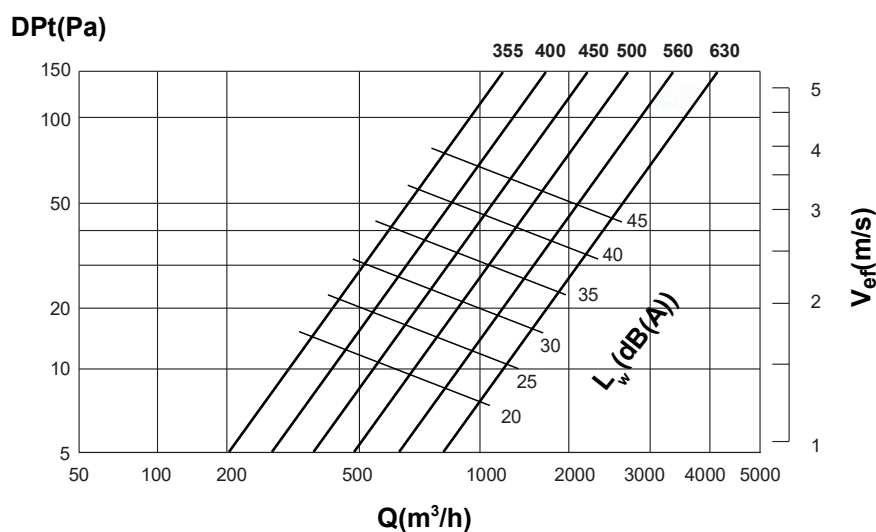
ØD	Ød	ØA	c	e	g	Q (m³/h) @ V _{ef} 4,5 (m/s)
355	353	450	70	48	10	950
400	398	500	70	50	10	1380
450	448	560	70	55	10	1930
500	498	630	70	65	10	2300
560	558	690	100	65	2	2950
630	628	760	100	65	2	3560

There are no other sizes available.

XC-L

Technical data

ØD	A _{ef} (m ²)	Q (m ³ /h) @ V _{ef} 2,5 (m/s)	Q (m ³ /h) @ V _{ef} 4,5 (m/s)
355	0,065	520	950
400	0,083	710	1380
450	0,106	900	1930
500	0,131	1100	2300
560	0,164	1650	2950
630	0,208	2100	3560



Mounting / Fixing

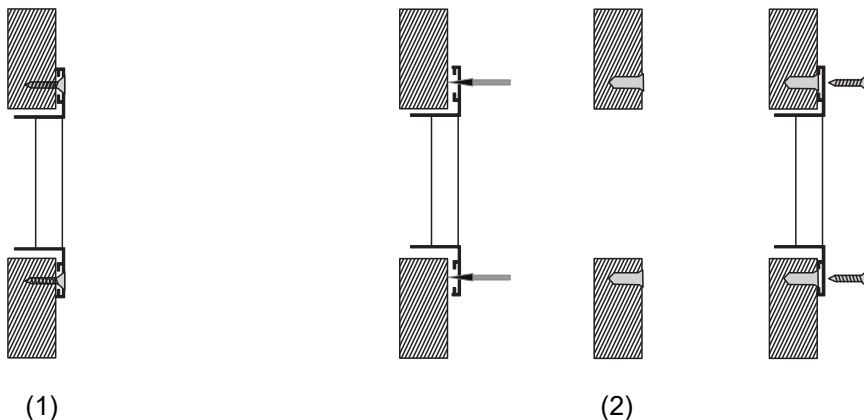
1: Measure opening hole and correct level differences and parallelism.

The maximum deviations allowed, both at parallelism and level difference, are +/- 5 mm.

2: Fixing

In metal sandwich panel **(1)**, use self drilling metal screws.

In concrete / brick structure **(2)** etc., mark the drilling hole and use appropriate plugs / anchors (not included).



Overpressure shutter

GG

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Specifications

Overpressure shutter with mobile blades.
With noise reduction gasket on each blade.

Used for protection of ventilation openings in buildings.

Material

Aluminium.
EPDM sealing gaskets.

Finish

Standard finish: anodized aluminium.

Note: painting** (extra cost) is not recommended.
(leads to blocking of the bearings)

Mounting / Fixing

Recessed mounting on walls (outside) only in vertical position.
Fixing with visible screws (countersunk holes in frame).

Optional accessories

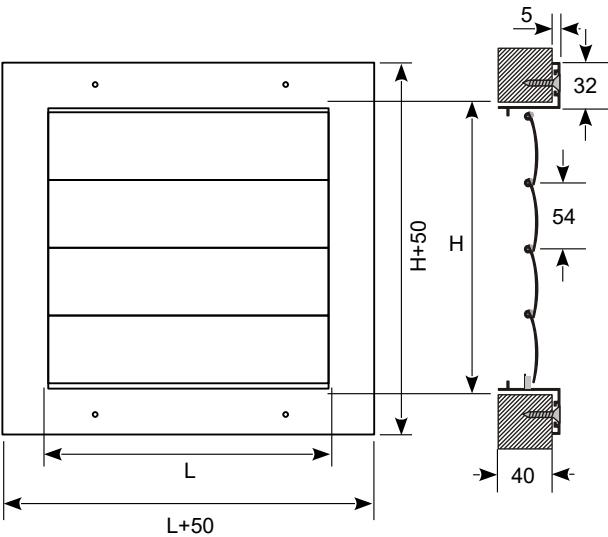
Blade linkage system - **LK** (extra cost).
Wire mesh - **PS** (extra cost).
Plenum box - **PL** (extra cost).

Order code: **GG** **aaa x bbb** **+***

Product code	_____	_____	_____	_____
opening length L (mm)	_____	_____	_____	_____
opening height H (mm)	_____	_____	_____	_____
not specified - ALU (anodized aluminium)	_____	_____	_____	_____
RAL xxxx - optional RAL code**	_____	_____	_____	_____

* optional accessories
** exclusively at the request and at the risk of the customer,
without taking into account eventual technical complaints.

Technical data



LxH - opening hole size

Grille neck size: (L-10) x (H-10)

Standard sizes

L	H	Q (m³/h) @ Vef 3 (m/s)
200	200	310
250	250	520
300	300	770
350	350	1050
400	400	1380
450	450	1770
500	500	2200
550	550	2680
600	600	3210

Important:

Can be used only in systems which have:
- for standard version: $2\text{m/s} < V_{\text{ef}} < 4\text{m/s}$
- for version+LK $2\text{m/s} < V_{\text{ef}} < 6\text{m/s}$

Custom sizes

Custom sizes available (under certain commercial conditions),
between LxH 200x200 mm ~ LxH 600x600 mm

For dimensions larger than LxH 600x600 it is recommended
to use **GL** type overpressure shutter.

Note: Overpressure shutter **GG** with sizes larger than LxH 600x600 mm it is manufactured
exclusively at the request and at the risk of the customer, without taking into account
eventual technical complaints.

Overpressure shutter

GG

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Technical data

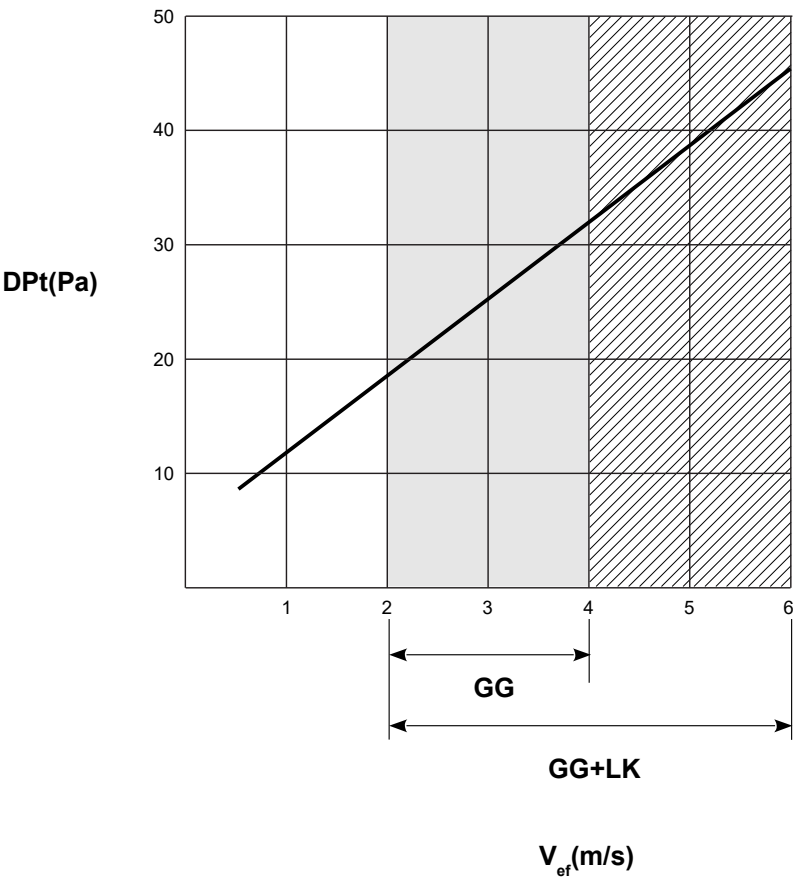
		A _{ef} (m ²)									
H (mm)	600	-	-	0,145	0,170	0,195	0,221	0,246	0,272	0,297	
	550	-	-	0,132	0,155	0,178	0,201	0,225	0,248	0,271	
	500	-	0,098	0,119	0,140	0,161	0,182	0,203	0,224	0,245	
	450	-	0,089	0,108	0,127	0,146	0,164	0,183	0,202	0,221	
	400	0,061	0,078	0,095	0,112	0,128	0,145	0,162	0,178	0,195	
	350	0,053	0,068	0,082	0,097	0,111	0,125	0,140	0,154	0,169	
	300	0,046	0,058	0,071	0,083	0,096	0,108	0,121	0,133	0,145	
	250	0,038	0,048	0,058	0,068	0,078	0,089	0,099	0,109	0,119	
	200	0,029	0,037	0,045	0,053	0,061	0,069	0,077	0,085	0,093	
		200	250	300	350	400	450	500	550	600	
L (mm)											

Use limits:
• V_{ef} = 2~4 m/s - GG
• V_{ef} = 2~6 m/s - GG+LK

Selection formula :

$$V_{ef} = \frac{Q / 3600}{A_{ef}}$$

$$A_{ef} = \frac{Q / 3600}{V_{ef}}$$



GG

Mounting / Fixing

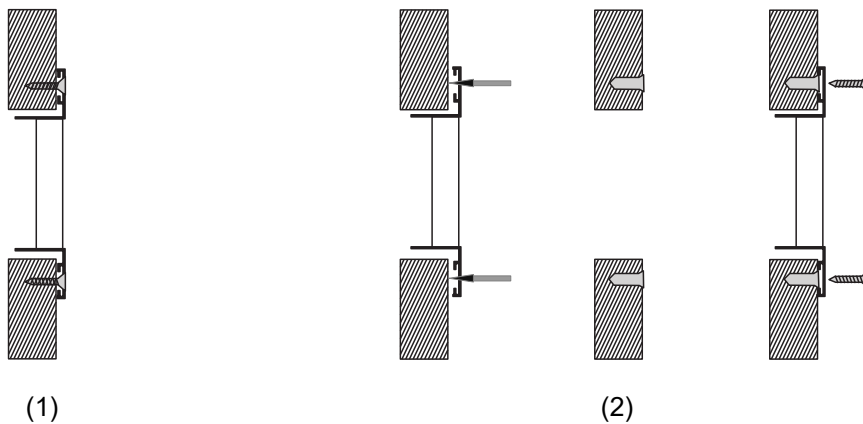
1: Measure opening hole and correct level differences and parallelism.
The maximum deviations allowed, both at parallelism and level difference, are ± 5 mm.



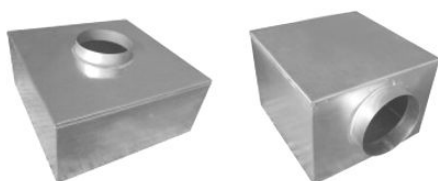
2: Fixing

In metal sandwich panel **(1)**, use self drilling metal screws.

In concrete / brick structure **(2)** etc., mark the drilling hole and use appropriate plugs / anchors (not included).



Optional accessories



PL – Plenum box (extra cost)

GG-A



Specifications

Overpressure shutter with mobile blades.
With noise reduction gasket on each blade.

Used for protection of ventilation openings in buildings.

Material

Aluminium.
EPDM sealing gaskets.

Finish

Standard finish: anodized aluminium.

Note: painting** (extra cost) is not recommended.
(leads to blocking of the bearings)

Mounting / Fixing

Flush mounting on walls (outside) only in vertical position.
Fixing with screws (hidden behind blades).

Order code:

GG-A **aaa x bbb**

Product code

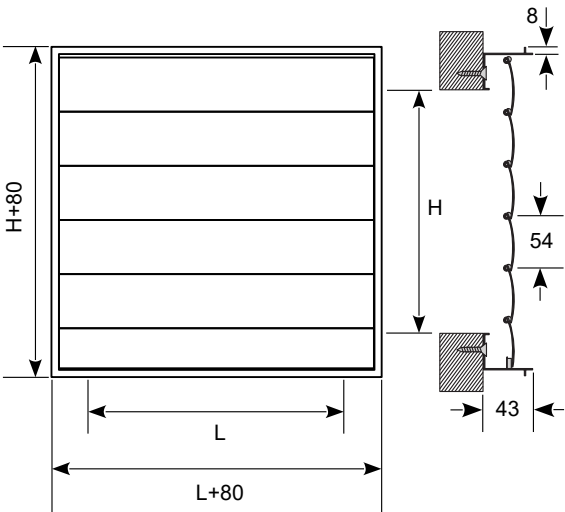
opening length L (mm)

opening height H (mm)

not specified - ALU (anodized aluminium)
RAL xxxx - optional RAL code**

** exclusively at the request and at the risk of the customer,
without taking into account eventual technical complaints.

Date tehnice



LxH - opening hole size

Standard sizes

L	H	Q (m³/h) @ Vef 3 (m/s)
200	200	310
250	250	520
315	315	780
350	350	1050
400	400	1380
450	450	1770
500	500	2200
550	550	2680
600	600	3210

There are no other sizes available.

Important:

Can be used only in systems which have 2m/s<V_{ef}<4m/s

GG-A

Technical data

A _{ef} (m ²)											
H (mm)	600	-	-	0,145	0,170	0,195	0,221	0,246	0,272	0,297	
	550	-	-	0,132	0,155	0,178	0,201	0,225	0,248	0,271	
	500	-	0,098	0,119	0,140	0,161	0,182	0,203	0,224	0,245	
	450	-	0,089	0,108	0,127	0,146	0,164	0,183	0,202	0,221	
	400	0,061	0,078	0,095	0,112	0,128	0,145	0,162	0,178	0,195	
	350	0,053	0,068	0,082	0,097	0,111	0,125	0,140	0,154	0,169	
	300	0,046	0,058	0,071	0,083	0,096	0,108	0,121	0,133	0,145	
	250	0,038	0,048	0,058	0,068	0,078	0,089	0,099	0,109	0,119	
	200	0,029	0,037	0,045	0,053	0,061	0,069	0,077	0,085	0,093	
		200	250	300	350	400	450	500	550	600	
L (mm)											

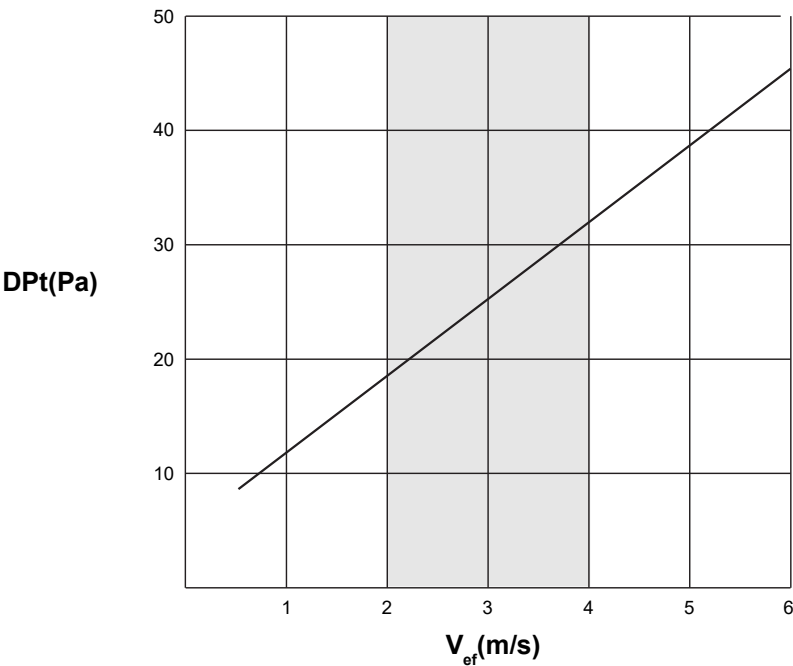
Use limits:

• $V_{ef} = 2\sim4\text{ m/s}$

Selection formula :

• $V_{ef} = \frac{Q / 3600}{A_{ef}}$

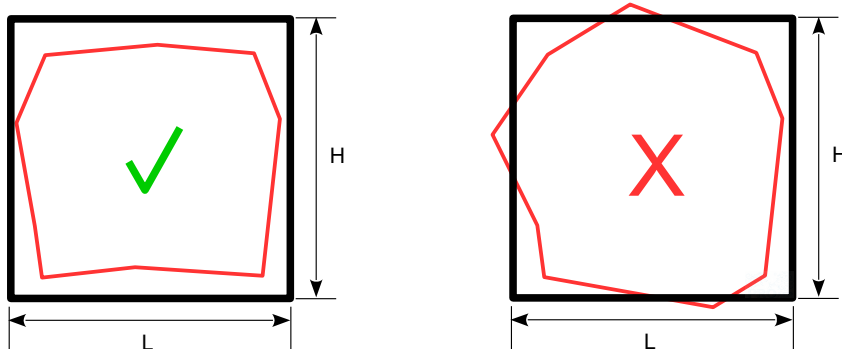
• $A_{ef} = \frac{Q / 3600}{V_{ef}}$



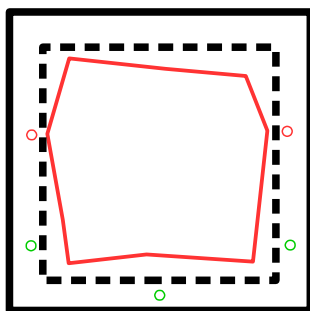
GG-A

Mounting / Fixing

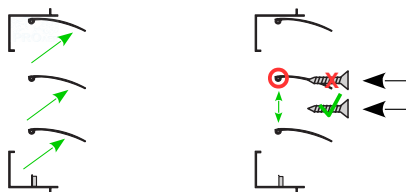
Overpressure shutter GG-A can be mounted on irregular form openings, as long as the size of opening is smaller than LxH shutter size.



There are no mounting holes in frame. The mounting holes will be drilled on site, as far as possible from the edges of opening hole, in the strongest point of the structure.

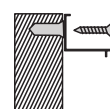
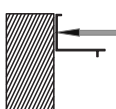
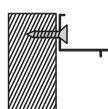
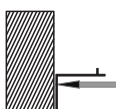
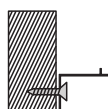


For drilling / fixing, lift the shutter blades.
Do not drill holes in pivoting area.



In metal sandwich panel **(1)**, use self drilling metal screws.

In concrete / brick structure **(2)** etc., mark the drilling hole and use appropriate plugs / anchors (not included).



(1)

(2)

GL



Detalii constructive. Utilizare.

Overpressure shutter with mobile blades.
Low friction bearings made from nylon PA6.

Used for protection of ventilation openings in buildings.

Material

Aluminium.
Bearings: nylon PA6.

Finish

Standard finish: natural aluminium
There are no other finishes available.

Mounting / Fixing

Mounting on walls (outside) only in vertical position.
Fixing with visible screws (countersunk holes in frame).

Optional accessories

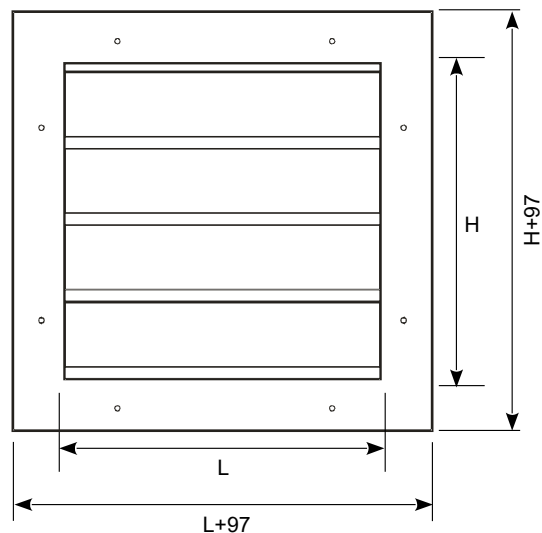
Blade linkage system - **LK** (extra cost).
Wire mesh - **PS** (extra cost).

Order code: **GL** **aaa x bbb** **+***

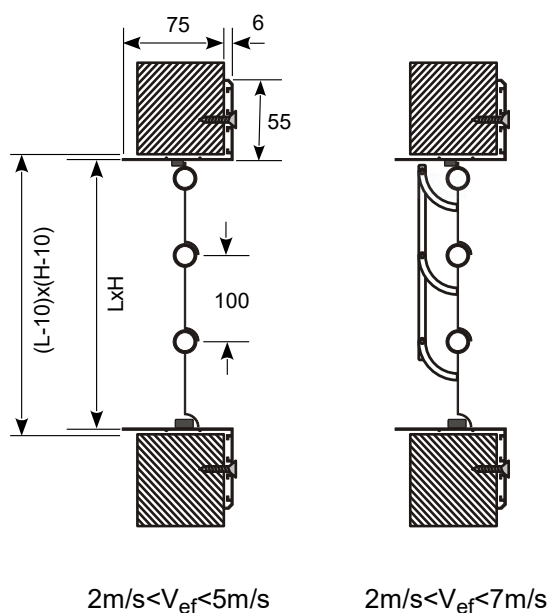
Product code ————
opening length L (mm) ————
opening height H (mm) ————
not specified - standard
+LK - blade linkage system (extra cost)

* - optional accessories

Technical data



LxH - opening hole size
Grille neck size: (L-10) x (H-10)



Available sizes

Can be manufactured with sizes between:
LxH 600x600 mm ~ LxH 2000x2000 mm

GL

Technical data

Use limits (standard):

- $V_{ef} = 2 \sim 5$ m/s

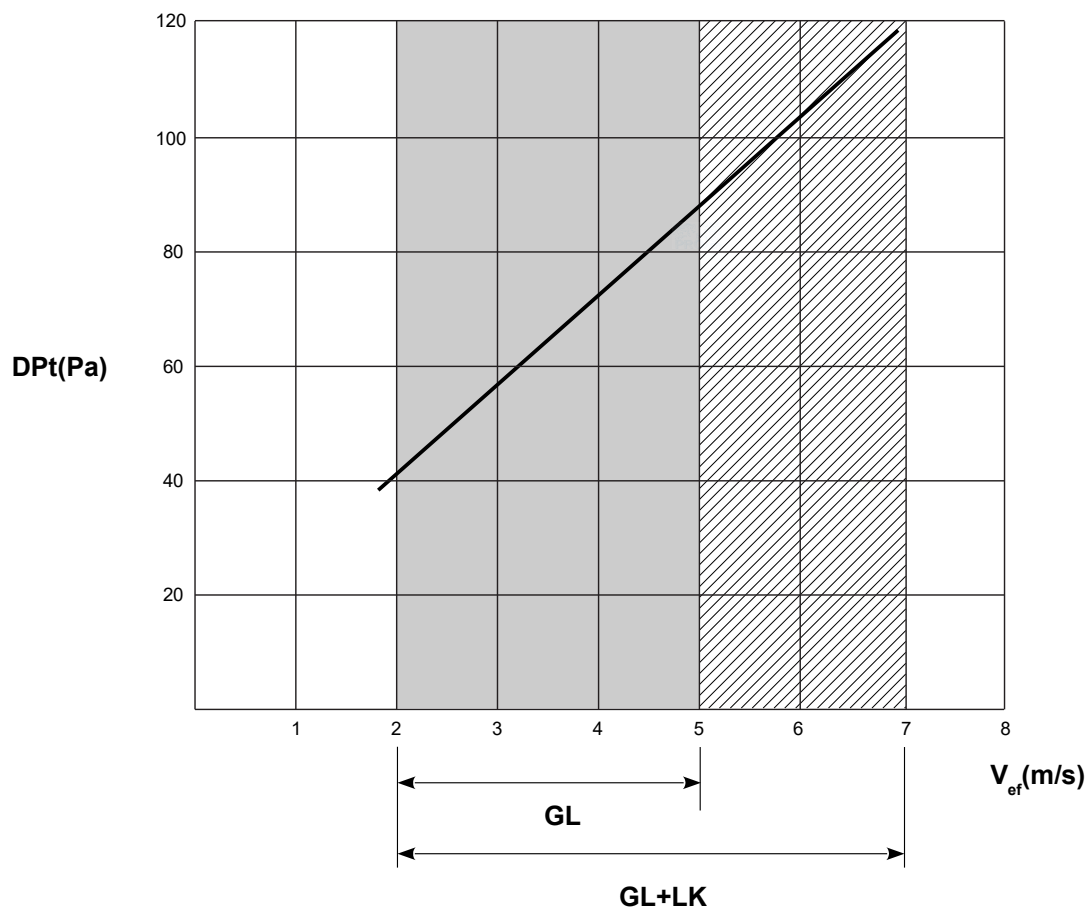
Use limits + LK:

- $V_{ef} = 2 \sim 7$ m/s

Selection formula :

$$V_{ef} = \frac{Q / 3600}{A_{ef}}$$

- $A_{ef} = (L(mm)/1000 \times H(mm)/1000 \times 0,8)$
(area in $m^2 \times 0,8$)



GL

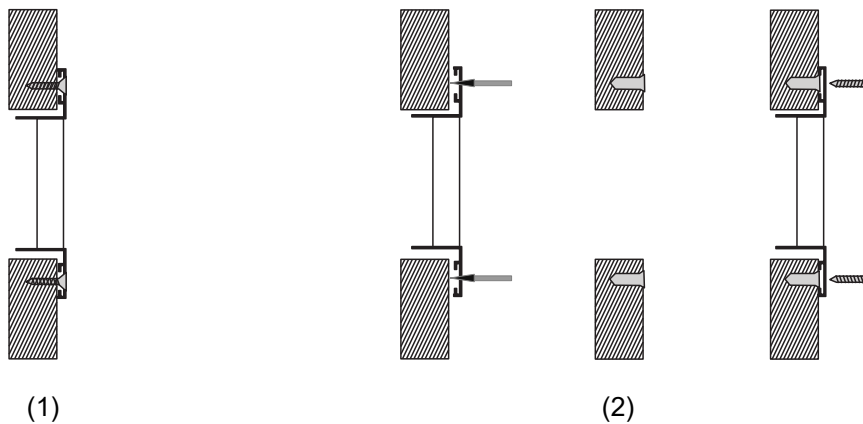
Mounting / Fixing

1: Measure opening hole and correct level differences and parallelism.
The maximum deviations allowed, both at parallelism and level difference, are +/- 5 mm.



2: Fixing
In metal sandwich panel **(1)**, use self drilling metal screws.

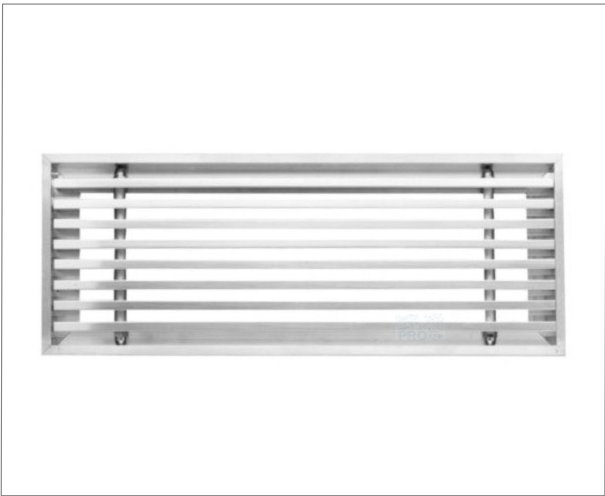
In concrete / brick structure **(2)** etc., mark the drilling hole and use appropriate plugs / anchors (not included).



Floor grille

GPT

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Specifications

Floor grille for intense traffic.

It supports a uniformly distributed load of max. 2500 kg/m².
(point load 65 kg/cm²)
The core has fixed blades, parallel with A size, and can be detached for maintenance and cleaning.

Used for exhaust, supply or recirculation, in ventilation systems.
The most common use is in technical floors from computer server rooms, computer technical containers, etc .

Material

Aluminium.

Finish

Standard finish: natural aluminium.
There are no other finishes available.

Mounting / Fixing

Mounting in technical floor structure.

Optional accessories

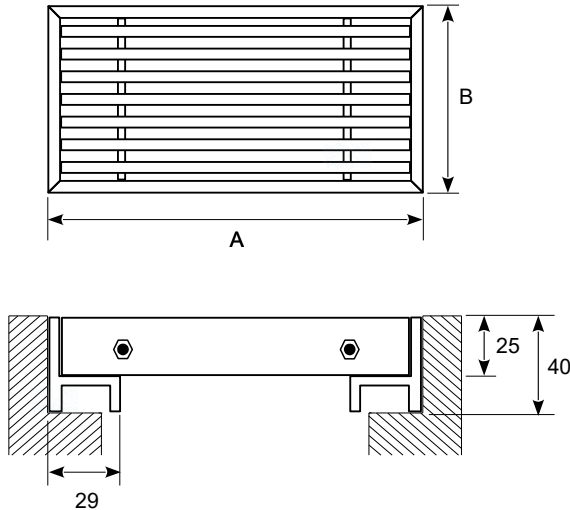
Opposed blade damper – **OBD** (extra cost).

Order code: **GPT** **aaa x bbb** **+***

Product code
opening size A (mm)
opening size B (mm)

* optional accessories

Technical data



AxB - opening hole size

Standard sizes

A	B	Q (m ³ /h) @ Vef 2,5 (m/s)
500	100	230
500	200	450
500	300	680
600	150	410
600	200	540
600	300	810
600	600	1620

Custom sizes

Custom sizes available (under certain commercial conditions),
between AxB 300x100 mm ~ AxB 1200x600 mm

GPT

Selection table

Q (m³/h)	LxH (mm)	A _{er} (m²)	600x100	600x150	500x200	600x200	500x300	600x300	600x600
			0,025	0,045	0,050	0,060	0,075	0,090	0,180
150	Lw(dB(A))	20							
	ΔP _t (Pa)	5							
200	Lw(dB(A))	24							
	ΔP _t (Pa)	8							
250	Lw(dB(A))	33	-						
	ΔP _t (Pa)	13	4						
300	Lw(dB(A))	38	21	20					
	ΔP _t (Pa)	17	6	6					
400	Lw(dB(A))		28	26					
	ΔP _t (Pa)		10	9					
500	Lw(dB(A))		35	34	26				
	ΔP _t (Pa)		15	14	9				
600	Lw(dB(A))		40	37	33	24	20		
	ΔP _t (Pa)		20	17	13	8	6		
800	Lw(dB(A))			46	42	34	29		
	ΔP _t (Pa)			29	22	14	10		
1000	Lw(dB(A))					42	37		
	ΔP _t (Pa)					24	18		
1200	Lw(dB(A))						42	22	
	ΔP _t (Pa)						23	7	
1500	Lw(dB(A))							26	
	ΔP _t (Pa)							9	
1800	Lw(dB(A))							35	
	ΔP _t (Pa)							15	
2000	Lw(dB(A))							38	
	ΔP _t (Pa)							18	
2500	Lw(dB(A))							43	
	ΔP _t (Pa)							24	

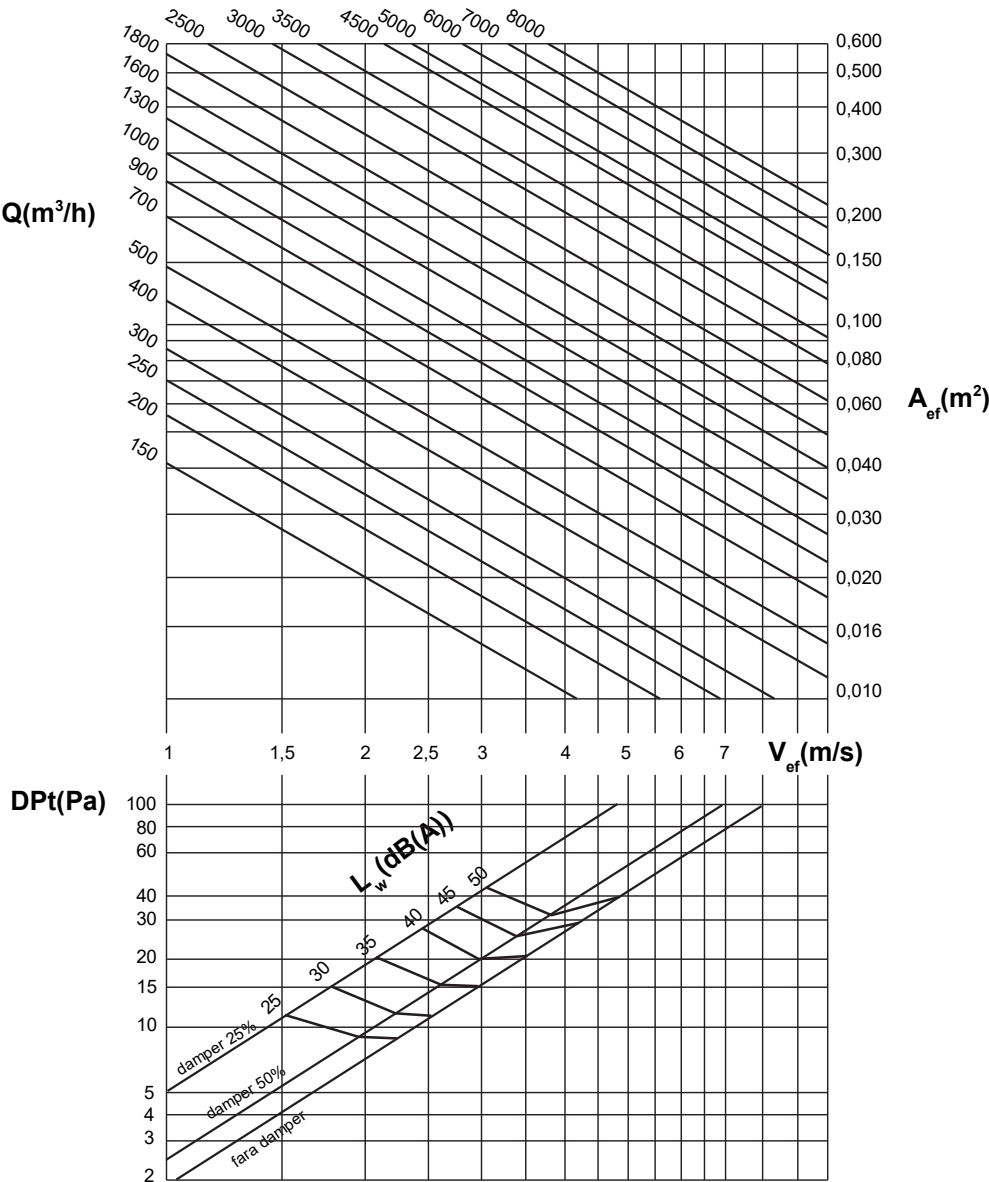
Data is valid for:

- Lw(dB(A)) incl. room attenuation 5dB(A)

Technical data

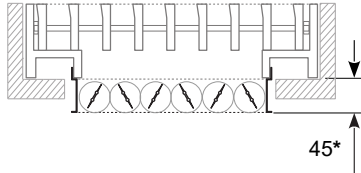
A_{ef} (m²) GVP

B (mm)	600	-	-	-	0,180	0,200	0,240	0,270	0,300	0,360
	500	-	-	0,125	0,150	0,180	0,200	0,230	0,250	0,300
	400	-	0,080	0,100	0,120	0,140	0,160	0,180	0,200	0,240
	300	0,045	0,060	0,075	0,090	0,110	0,120	0,140	0,150	0,180
	200	0,030	0,040	0,050	0,060	0,070	0,080	0,090	0,100	0,120
	150	0,023	0,030	0,038	0,045	0,053	0,060	0,068	0,080	0,090
	100	0,015	0,020	0,025	0,030	0,035	0,040	0,045	0,050	0,060
A (mm)										
		300	400	500	600	700	800	900	1000	1200



GPT

Optional accessories



OBD - Opposed blade damper. (extra cost)

*to be added to grille depth dimension

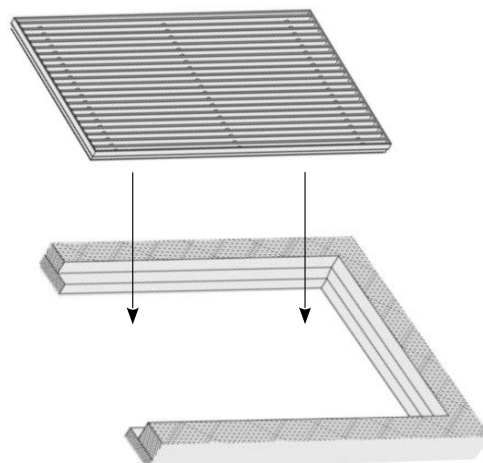
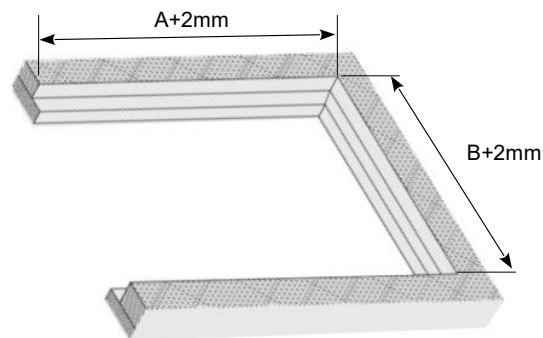
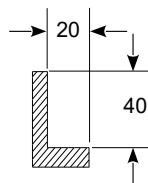
Mounting / Fixing

For mounting is necessary to build a structure according to the drawing.

Mounting structure length - size $A+2\text{mm}$

Mounting structure width - size $B+2\text{mm}$

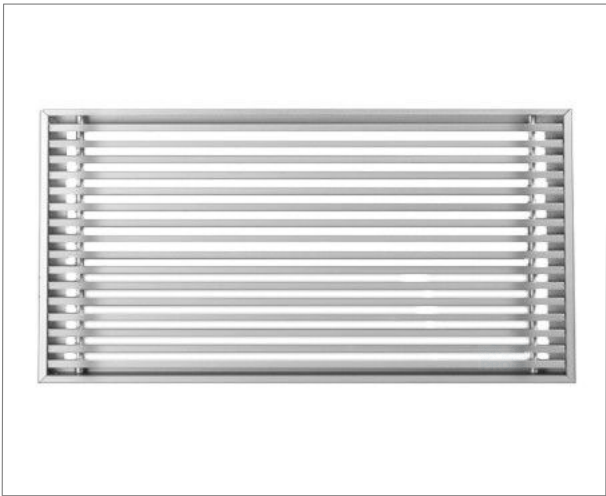
The outer frame of the grille should be laid down or fixed in the structure with mechanical systems or industrial contact adhesive. The inner core of the grille is then placed inside the grille frame.



Floor grille

GPV

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Specifications

Floor grille.
The core has fixed blades, parallel with A size, and can be detached for maintenance and cleaning.

Used for exhaust, supply or recirculation, in ventilation systems.
The most common use is for fancoil masking.

Material

Aluminium.

Finish

Standard finish: natural aluminium.

Optional finishing:
- different RAL (extra cost)

Mounting / Fixing

Mounting on floor, in existing fancoil structure.

Optional accessories

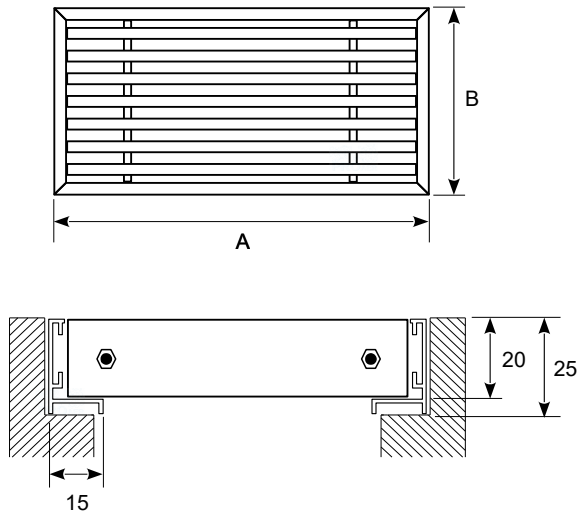
Opposed blade damper – OBD (extra cost).

Order code: **GPV** **aaa x bbb** **+***

Product code _____
opening size A (mm) _____
opening size B (mm) _____

* optional accessories

Technical data



AxB - opening hole size

Standard sizes

A	B	Q (m³/h) @ Vef 2,5 (m/s)
500	100	230
500	200	450
500	300	680
600	150	410
600	200	540
600	300	810
600	600	1620

Custom sizes

Custom sizes available (under certain commercial conditions),
between AxB 300x100 mm ~ AxB 1200x600 mm

GPV

Selection table

Q (m³/h)	LxH (mm)	A _{ef} (m²)	600x100	600x150	500x200	600x200	500x300	600x300	600x600
			0,025	0,045	0,050	0,060	0,075	0,090	0,180
150	Lw(dB(A))	20							
	ΔP _t (Pa)	5							
200	Lw(dB(A))	24							
	ΔP _t (Pa)	8							
250	Lw(dB(A))	33	-						
	ΔP _t (Pa)	13	4						
300	Lw(dB(A))	38	21	20					
	ΔP _t (Pa)	17	6	6					
400	Lw(dB(A))		28	26					
	ΔP _t (Pa)		10	9					
500	Lw(dB(A))		35	34	26				
	ΔP _t (Pa)		15	14	9				
600	Lw(dB(A))		40	37	33	24	20		
	ΔP _t (Pa)		20	17	13	8	6		
800	Lw(dB(A))			46	42	34	29		
	ΔP _t (Pa)			29	22	14	10		
1000	Lw(dB(A))					42	37		
	ΔP _t (Pa)					24	18		
1200	Lw(dB(A))						42	22	
	ΔP _t (Pa)						23	7	
1500	Lw(dB(A))							26	
	ΔP _t (Pa)							9	
1800	Lw(dB(A))							35	
	ΔP _t (Pa)							15	
2000	Lw(dB(A))							38	
	ΔP _t (Pa)							18	
2500	Lw(dB(A))							43	
	ΔP _t (Pa)							24	

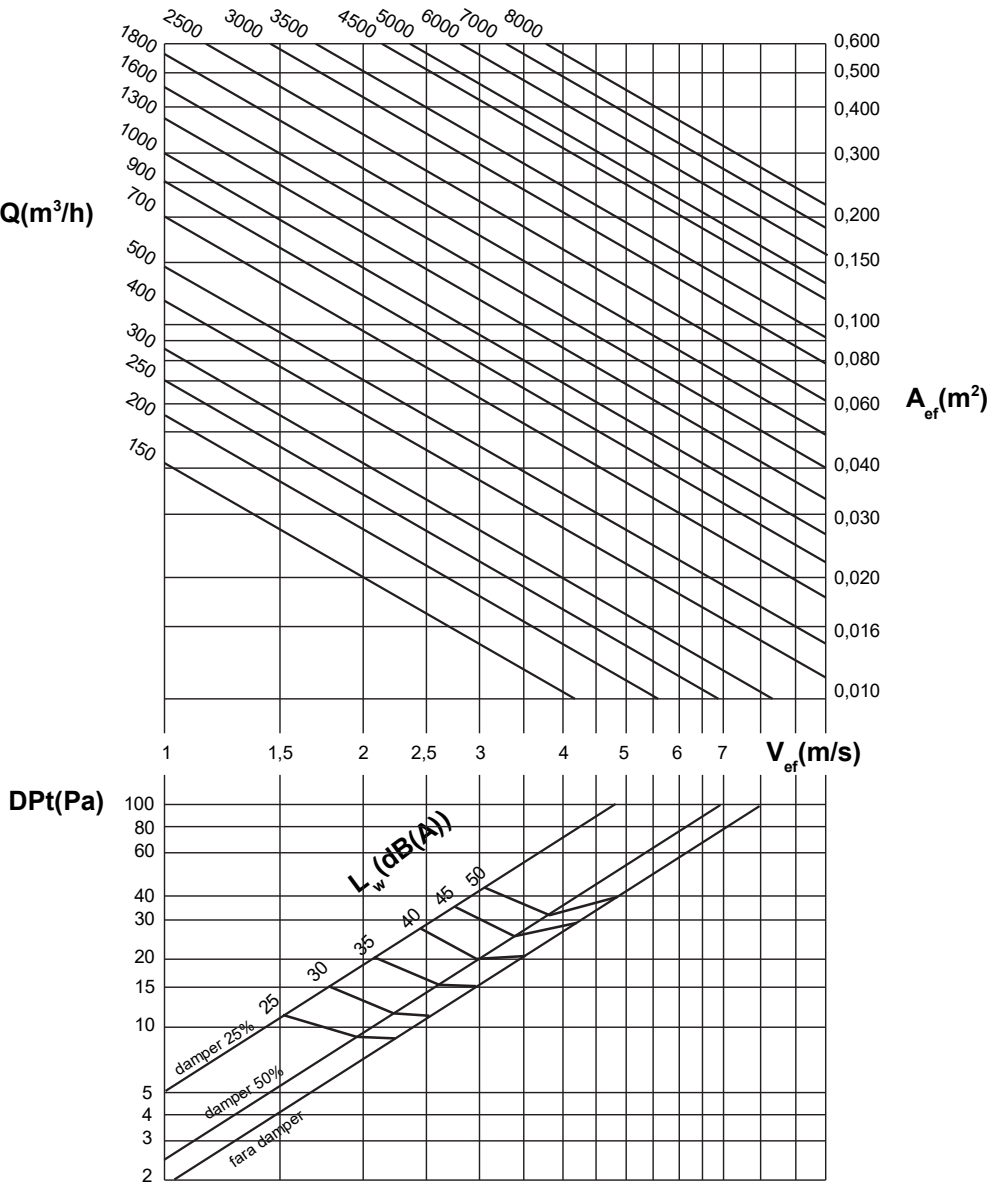
Data is valid for:

- Lw(dB(A)) incl. room attenuation 5dB(A)

Technical data

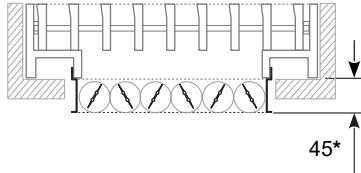
A_{ef} (m²) GVP

B (mm)	600	-	-	-	0,180	0,200	0,240	0,270	0,300	0,360
	500	-	-	0,125	0,150	0,180	0,200	0,230	0,250	0,300
	400	-	0,080	0,100	0,120	0,140	0,160	0,180	0,200	0,240
	300	0,045	0,060	0,075	0,090	0,110	0,120	0,140	0,150	0,180
	200	0,030	0,040	0,050	0,060	0,070	0,080	0,090	0,100	0,120
	150	0,023	0,030	0,038	0,045	0,053	0,060	0,068	0,080	0,090
	100	0,015	0,020	0,025	0,030	0,035	0,040	0,045	0,050	0,060
A (mm)										
		300	400	500	600	700	800	900	1000	1200



GPV

Optional accessories



OBD - Opposed blade damper. (extra cost)

*to be added to grille depth dimension

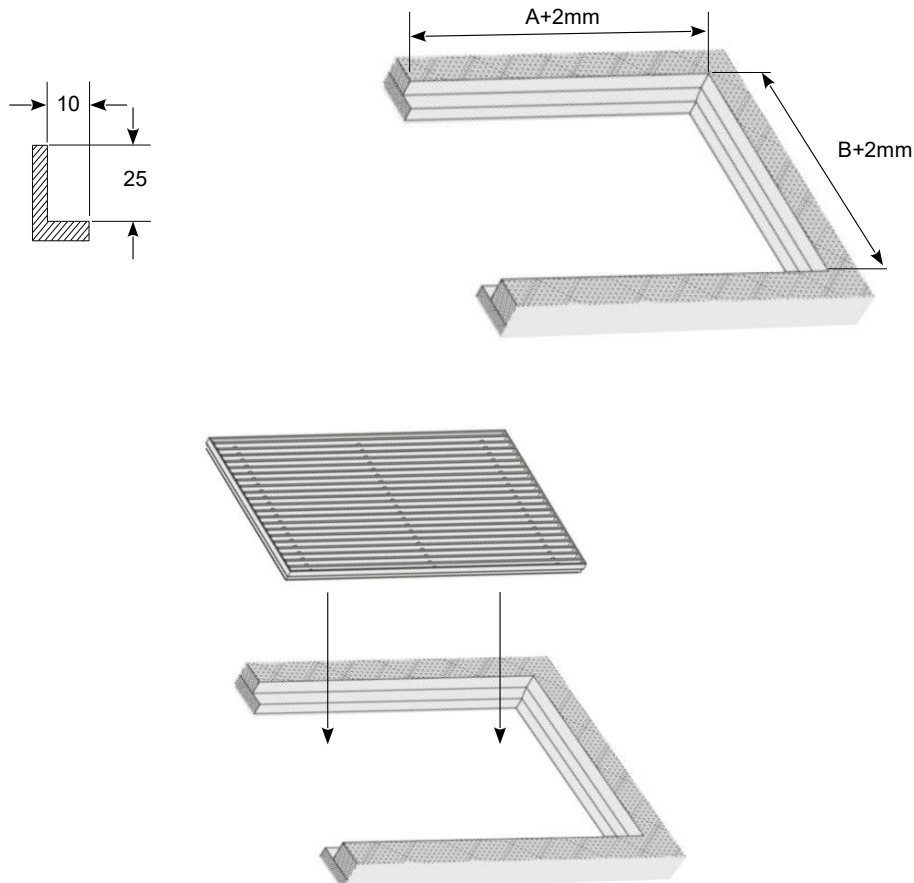
Mounting / Fixing

For mounting the existing fancoil structure can be used, or is necessary to build a structure according to the drawing.

Mounting structure length - size $A+2\text{mm}$

Mounting structure width - size $B+2\text{mm}$

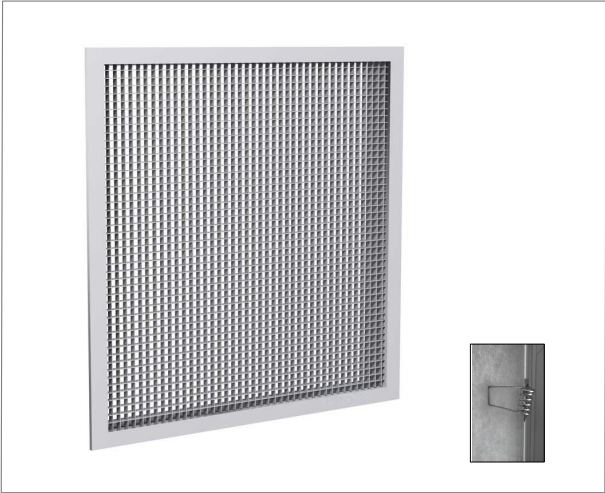
The outer frame of the grille should be layed down or fixed in the structure with mechanical systems or industrial contact adhesive. The inner core of the grille is then placed inside the grille frame.



Grille with air filter

EGC-F

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Specifications

Egg crate grille with 0° core with detachable air filter G4 class.
Available also with 45° core (extra cost).

Used for exhaust, supply or recirculation, in ventilation systems.
Effective area 90%, square grid 12,5x12,5 mm spacing.

Finish

Standard finish: white RAL9003.

Optional finishing:
- different RAL (extra cost)
- natural aluminium

Mounting / Fixing

Mounting on the wall or ceiling (inside).
Fixing with visible screws (countersunk hole in frame).

Different fixing systems are available under certain commercial conditions.
(see **Fixing systems for grilles / diffusers**)

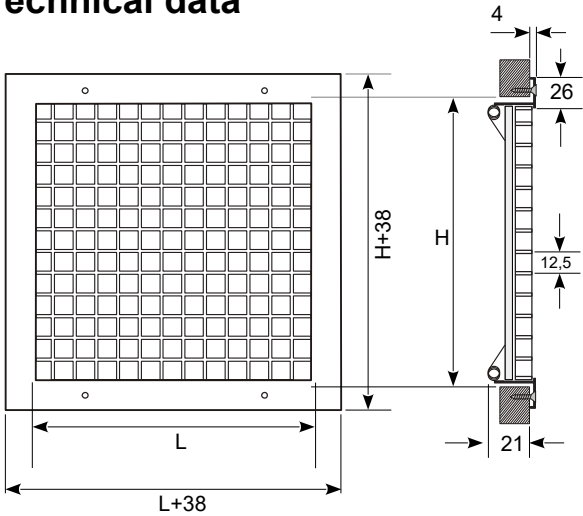
Optional accessories

Air filter G3 class – **FG3**.
Plenum box – **PL** (extra cost).
Fixing systems (extra cost).

Order code:	EGC-F	aaa x bbb	+ *
EGC-F - 0° core - standard			
EGC45-F - 45° core (extra cost)			
opening length L (mm)			
opening height H (mm)			
not specified - white RAL9003 (standard)			
RALxxxx - optional RAL code			
ALU - natural aluminium			

* optional accessories

Technical data



LxH - opening hole size

Grille neck size: (L-10) x (H-10)

Standard sizes

L	H	Q (m³/h) @ Vef 1,5 (m/s)
200	200	184
250	250	286
300	300	416
350	350	562
400	400	734
450	450	929
500	500	1150
600	600	1652
595*	595*	1388

* external dimension 595x595, for cassette ceiling system
(without mounting holes in frame)

Custom sizes

Custom sizes available (under certain commercial conditions),
between: LxH 100x100 mm ~ LxH 1200x600 mm

EGC-F

Technical data

LxH (mm)	A _{ef} (m ²)	Q (m ³ /h)	V _{ef} (m/s)	ΔPt _i (Pa) G4/G3	ΔPt _f (Pa)	DHC(g) G4/G3	AvAr(%) G4/G3
200x200	0,034	184	1,5	38 / 35	250	478 / 400	91 / 87
250x250	0,053	286	1,5	38 / 35	250	478 / 400	91 / 87
300x300	0,077	416	1,5	38 / 35	250	478 / 400	91 / 87
350x350	0,104	562	1,5	38 / 35	250	478 / 400	91 / 87
400x400	0,136	734	1,5	38 / 35	250	478 / 400	91 / 87
450x450	0,172	929	1,5	38 / 35	250	478 / 400	91 / 87
500x500	0,213	1150	1,5	38 / 35	250	478 / 400	91 / 87
600x600	0,306	1652	1,5	38 / 35	250	478 / 400	91 / 87
595x595*	0,257	1388	1,5	38 / 35	250	478 / 400	91 / 87

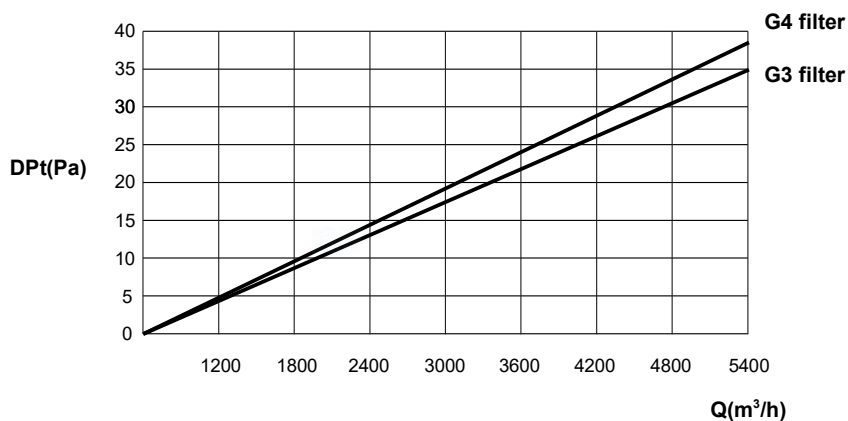
*external dimension 595x595, for cassette ceiling system

Specifications:

- ΔPt_i(Pa) - initial pressure loss (clean filter)
- ΔPt_f(Pa) - final pressure loss (dirty filter)
- DHC(g) - dust holding capacity (g)
- AA(%) - average arrestance (%)

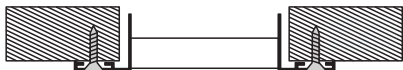
General specifications filter material:

- Filter classification ISO16890 - Coarse 60% G4 / Coarse 40% G3
- Flammability class DIN 53438 - F1
- Temperature resistance - 100°C continuous



EGC-F

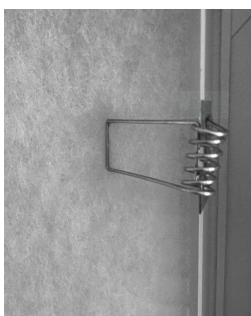
Fixing



Fixing with visible screws (**standard**).
Screws are supplied at the same color as grille.

Different fixing systems are available (under certain commercial conditions).
(details in **Fixing systems for grilles / diffusers** chapter)

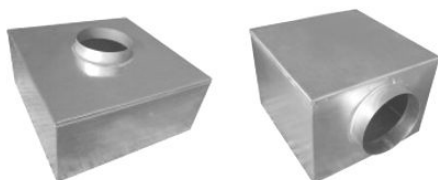
Filter replacement



The filter (class G4 standard) is fixed on the back of the grille with torsion springs. Lift the springs for filter replacement.

Spare filter:
- class G4 - **FG4**
- class G3 - **FG3**

Optional accessories



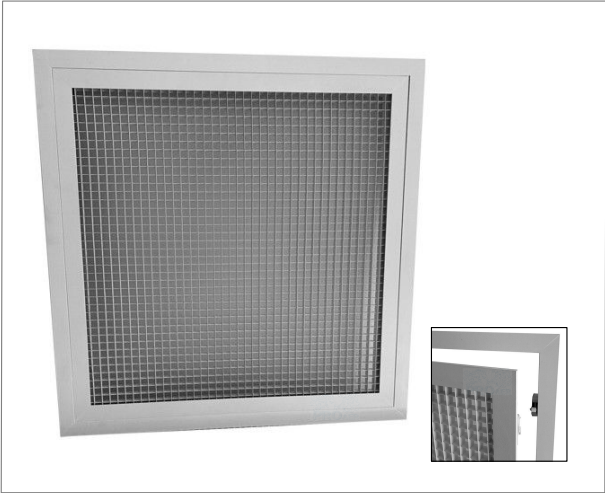
PL – Plenum box (extra cost)

Variants:
- uninsulated / thermal insulated
- axial or lateral spigot

Hinged grille with air filter

GAF

[Back to Content](#)



Specifications

Hinged egg crate grille with 0° core with mini-latch opening system and detachable air filter G4 class.

Available also with 45° core (extra cost).

Used for exhaust, supply or recirculation, in ventilation systems. Effective area 90%, square grid 12,5x12,5 mm spacing.

Material

Aluminium.

Finish

Standard finish: white RAL9003.

Optional finishing:
- different RAL (extra cost)
- natural aluminium

Mounting / Fixing

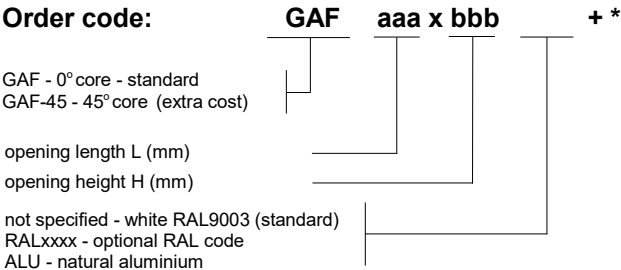
Mounting on the wall or ceiling (inside).
Fixing with visible screws (countersunk hole in frame).

Different fixing systems are available under certain commercial conditions.
(see **Fixing systems for grilles / diffusers**)

Optional accessories

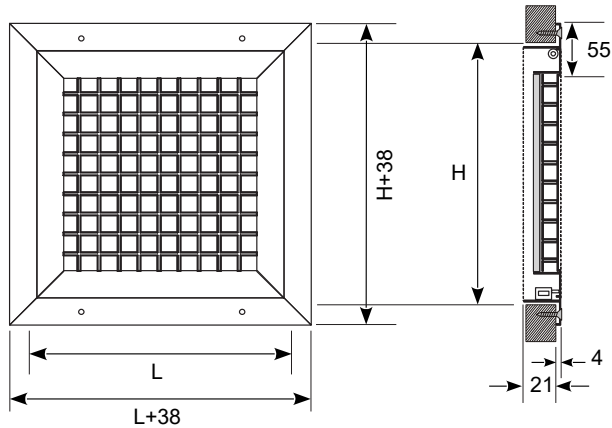
Air filter G3 class – **FG3**.
Plenum box – **PL** (extra cost).
Fixing systems (extra cost).

Order code:



* optional accessories

Technical data



LxH - opening hole size

Grille neck size: (L-10) x (H-10)

Standard sizes

L	H	Q (m³/h) @ Vef 1,5 (m/s) with G4 filter	Q (m³/h) @ Vef 2,5 (m/s) without filter
300	300	270	420
450	450	718	1265
600	600	1388	2200
595*	595*	1166	1920

* external dimension 595x595, for cassette ceiling system
(without mounting holes in frame)

Custom sizes

Custom sizes available (under certain commercial conditions),
between: LxH 300x300 mm ~ LxH 1200x600 mm

GAF

Technical data

LxH (mm)	A _{ef} (m ²)	Q (m ³ /h)	V _{ef} (m/s)	ΔP _{t_i} (Pa) G4/G3	ΔP _{t_f} (Pa)	DHC(g) G4/G3	AvAr(%) G4/G3
300x300	0,050	270	1,5	38 / 35	250	478 / 400	91 / 87
450x450	0,133	718	1,5	38 / 35	250	478 / 400	91 / 87
600x600	0,257	1388	1,5	38 / 35	250	478 / 400	91 / 87
595x595*	0,216	1166	1,5	38 / 35	250	478 / 400	91 / 87

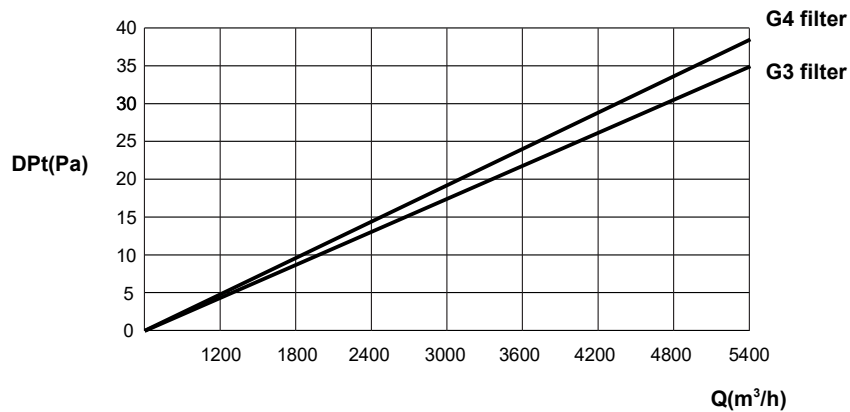
*external dimension 595x595, for cassette ceiling system

Specifications:

- ΔP_{t_i}(Pa) - initial pressure loss (clean filter)
- ΔP_{t_f}(Pa) - final pressure loss (dirty filter)
- DHC(g) - dust holding capacity (g)
- AA(%) - average arrestance (%)

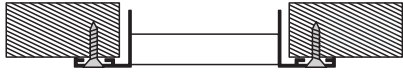
General specifications filter material:

- Filter classification ISO16890 - Coarse 60% G4 / Coarse 40% G3
- Flammability class DIN 53438 - F1
- Temperature resistance - 100°C continuous



GAF

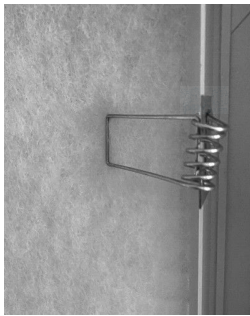
Fixing



Fixing with visible screws (**standard**).
Screws are supplied at the same color as grille.

Different fixing systems are available (under certain commercial conditions).
(details in **Fixing systems for grilles / diffusers** chapter)

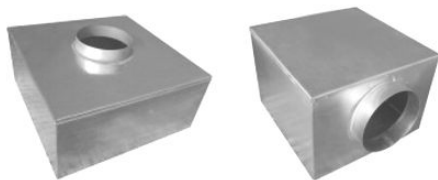
Filter replacement



The filter (class G4 standard) is fixed on the back of the grille with torsion springs. Lift the springs for filter replacement.

Spare filter:
- class G4 - **FG4**
- class G3 - **FG3**

Optional accessories



PL – Plenum box (extra cost)

Variants:
- uninsulated / thermal insulated
- axial or lateral spigot

EXT-FA



Specifications

Hinged external weather louvre with fixed blades, inclined at 45°, with special rain prevention profile, with mini-latch opening system and detachable air filter G4 class. Supplied standard with wire mesh (eye according to size). Free area approx. 68%. Pitch 38 mm.

Used for air intake or exhaust, in ventilation systems.

Material

Aluminium.
Expanded galvanized steel mesh.

Finish

Standard finish: natural aluminium.

Optional finishing:
- different RAL (extra cost)
- anodized aluminium

Mounting / Fixing

Mounting on walls (outside), only in vertical position.
Fixing with visible screws (countersunk hole in frame)

Optional accessories

Plenum box – PL (extra cost).

Order code: **EXT-FA** **aaa x bbb** **+***

Product code

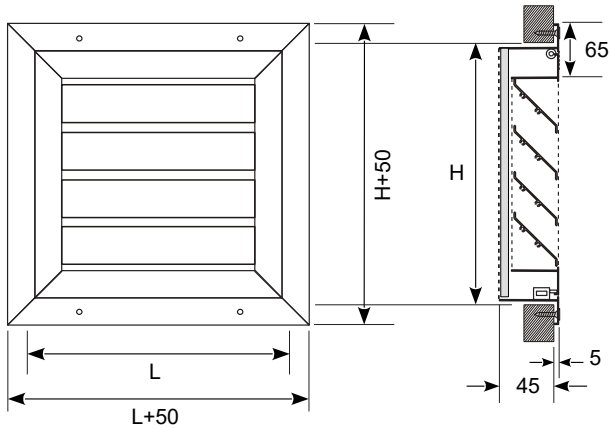
opening length L (mm)

opening height H (mm)

not specified - ALU (natural aluminium) standard
RALxxxx - optional RAL code

* optional accessories

Technical data



LxH - opening hole size
Grille neck size: (L-10) x (H-10)

Standard sizes

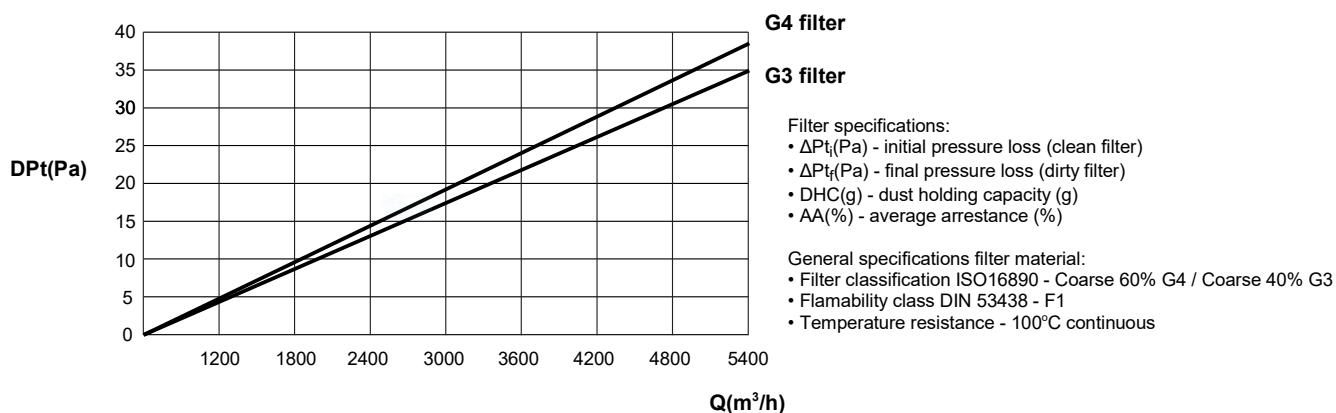
L	H	Q (m³/h) @ Vef 1,5 (m/s) with G4 filter
400	400	588
500	500	997
600	600	1516

Available sizes

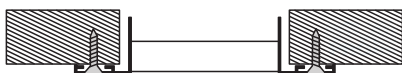
Can be manufactured with custom sizes between:
LxH 400x400 mm ~ LxH 1000x1000 mm (opening size).

EXT-FA

Technical data



Fixing



Fixing with visible screws (**standard**).
Screws are supplied at the same color as grille.

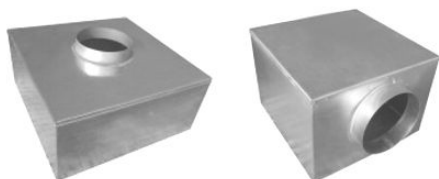
Filter replacement



The filter is mounted between the hinged grille and the wire mesh. For filter replacement open the grille by pressing on mini-latches system.

Spare filter:
- class G4 - **FG4**

Optional accessories



PL – Plenum box (extra cost)

Variants:
- uninsulated / thermal insulated
- axial or lateral spigot

RPS



Specifications

Frame with air mesh.

Used for protection of ventilation openings in buildings.

Material

Aluminium frame.

Expanded / Welded galvanized steel mesh.

Finish

Standard finish: natural aluminium / galvanized steel.

Optional finishing:

- different RAL (extra cost)

Mounting / Fixing

Mounting on walls, ducts etc..

Fixing with visible screws (countersunk hole in frame).

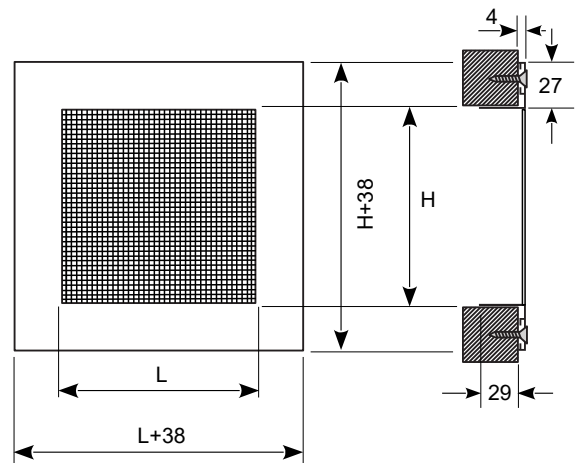
Order code: **RPS** **aaa x bbb**

Product code	_____	_____	_____	_____	_____
opening length L (mm)	_____	_____	_____	_____	_____
opening height H (mm)	_____	_____	_____	_____	_____
not specified - natural alu/galv (standard)	_____	_____	_____	_____	_____
RALxxxx - optional RAL code	_____	_____	_____	_____	_____
wire mesh eye*	_____	_____	_____	_____	_____

*Wire mesh eye size:

- 8x4 mm (g. 0,7 mm) - expanded wire mesh
- 10x5 mm (g. 0,8 mm) - expanded wire mesh - standard for LxH<1000x1000
- 19x19 mm (g. 1,50 mm) - welded wire mesh - standard for LxH>1000x1000

Technical data



LxH - opening hole size

Grille neck size: (L-10) x (H-10)

Available sizes

Can be manufactured with custom sizes between:

LxH 100x100 mm ~ LxH 2000x1000 mm (opening size).

UV



Specifications

Access door with mini-latch opening system.

Used for protection of ventilation openings in buildings.

Material

Aluminium frame.
Steel door panel.

Finish

Standard finish: white RAL9003.

Optional finishing:
- different RAL (extra cost)

Mounting / Fixing

Mounting on ceiling / wall (inside).
Fixing with visible screws (countersunk hole in frame).

Fixing without visible screws can be made from the frame lateral size or with industrial contact adhesives**.

Optional accessories

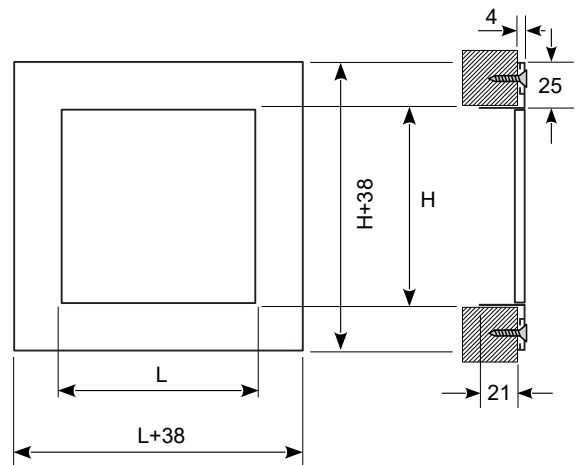
Key lock - **K** (extra cost)
Magnetic lock - **M** (without extra cost)

Order code: **UV** **aaa x bbb** **+***

Product code	_____	_____	_____	_____	_____
opening length L (mm)	_____	_____	_____	_____	_____
opening height H (mm)	_____	_____	_____	_____	_____
not specified - white RAL9003 (standard)	_____	_____	_____	_____	_____
RALxxxx - optional RAL code	_____	_____	_____	_____	_____
not specified - visible screw fixing (standard)	_____	_____	_____	_____	_____
FG - without holes in frame	_____	_____	_____	_____	_____

* optional accessories
** not supplied

Technical data



LxH - opening hole size

Grille neck size: (L-10) x (H-10)

Available sizes

Can be manufactured with custom sizes between:
LxH 150x150 mm ~ LxH 600x600 mm (opening size).

Mounting / Fixing



Fixing with visible screws (standard).



Fixing without visible screws.
(from the inside lateral wall of the frame)



Mounting with industrial contact adhesives
(Not supplied. Should be purchased by installer)

Accessories



Mini-latch system
(standard)



Magnetic lock - code **M**
(without extra cost)



Key lock - code **K**
(extra cost)

EXT-GALV



Specifications

External weather louvre with fixed blades, inclined at 45°, with special rain prevention profile.
Supplied standard with wire mesh (eye according to size).
Free area approx. 68%. Pitch 50 mm.

Used for air intake or exhaust, in ventilation systems.

Material

Galvanised steel - DX51D Z140

Mounting / Fixing

Mounting on walls (outside), only in vertical position.
Fixing with visible screws (countersunk hole in frame)

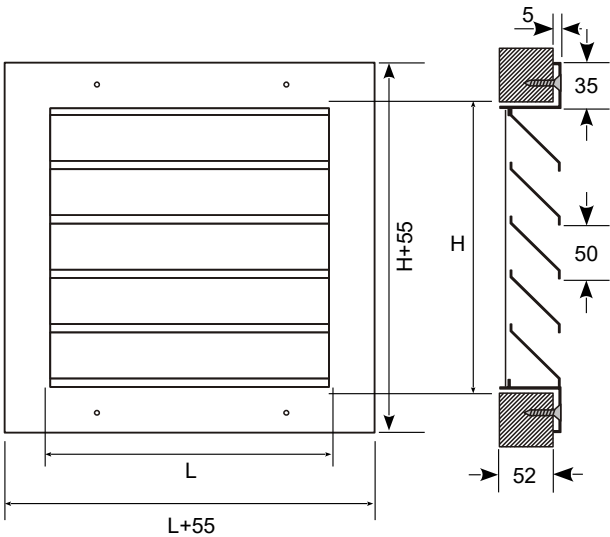
Order code: **EXT- GALV** **aaa x bbb**

Product code

opening length L (mm)

opening height H (mm)

Technical data



LxH - opening hole size

Grille neck size: (L-15) x (H-15)

Standard sizes

L	H	Q (m³/h) @ V _{ef} 3,5 (m/s)
200	200	350
250	250	560
300	300	790
350	350	1080
400	400	1490
450	450	1880
500	500	2330
600	600	3350

Custom sizes

Custom sizes available (under certain commercial conditions),
between: LxH 200x200 mm ~ LxH 2000x1000 mm,
with a height step of 50 mm.

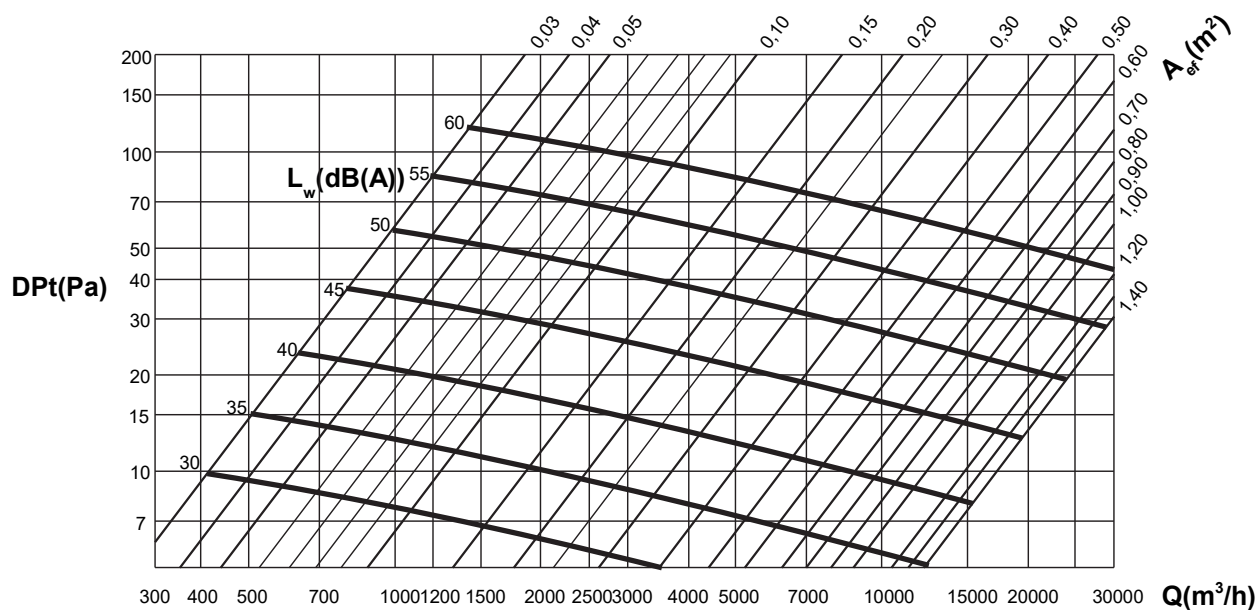
EXT-GALV

Selection table

Q (m³/h)	LxH (mm)	200x200	300x200	400x200	300x300	500x200	400x250	400x300	350x350	500x250	500x300	400x400	500x400	450x450	600x400	500x500	600x500	600x600
	A _{ef} (m²)	0,028	0,042	0,056	0,063	0,074	0,086	0,092	0,115	0,148	0,177	0,221	0,266					
300	Lw(dB(A))	23																
	ΔPt(Pa)	7																
400	Lw(dB(A))	29	24															
	ΔPt(Pa)	12	7															
500	Lw(dB(A))	37	30	20														
	ΔPt(Pa)	20	12	5														
700	Lw(dB(A))	43	36	32	29	25												
	ΔPt(Pa)	38	22	13	11	8												
1000	Lw(dB(A))		46	41	38	34	32	29										
	ΔPt(Pa)		48	28	21	15	12	9										
1200	Lw(dB(A))			44	42	38	37	35	28									
	ΔPt(Pa)			20	32	23	17	15	8									
1500	Lw(dB(A))				47	43	42	39	34	30								
	ΔPt(Pa)				48	34	28	23	13	8								
2000	Lw(dB(A))						48	45	42	37	33	29						
	ΔPt(Pa)						48	35	25	15	11	7						
2500	Lw(dB(A))								46	41	38	34	31					
	ΔPt(Pa)								36	22	16	11	8					
3000	Lw(dB(A))									46	42	38	35					
	ΔPt(Pa)									34	23	16	11					
4000	Lw(dB(A))										48	44	42					
	ΔPt(Pa)										41	28	20					
5000	Lw(dB(A))											50	46					
	ΔPt(Pa)											45	32					
7000	Lw(dB(A))												55					
	ΔPt(Pa)												60					

Technical data

Technical data							A _{ef} (m²)											
H (mm)	1000	-	-	-	-	-	-	0,369	0,443	0,590	0,738	0,886	1,107	1,328	1,476			
	900	-	-	-	-	-	-	0,332	0,399	0,531	0,664	0,797	0,996	1,196	1,328			
	800	-	-	-	-	-	-	0,295	0,354	0,472	0,590	0,708	0,886	1,063	1,181			
	700	-	-	-	-	-	-	0,258	0,310	0,413	0,517	0,620	0,775	0,930	1,033			
	600	-	-	-	-	-	-	0,221	0,266	0,354	0,443	0,531	0,664	0,797	0,886			
	500	-	-	-	-	-	-	0,185	0,221	0,295	0,369	0,443	0,554	0,664	0,738			
	450	-	-	-	-	-	0,149	0,166	0,199	0,266	0,332	0,399	0,498	-	-			
	400	-	-	-	-	0,118	0,133	0,148	0,177	0,236	0,295	0,354	0,443	-	-			
	350	-	-	-	0,086	0,098	0,116	0,129	0,155	0,207	0,258	0,310	-	-	-			
	300	-	-	0,063	0,074	0,084	0,100	0,111	0,133	0,177	0,221	0,266	-	-	-			
	250	-	0,044	0,053	0,061	0,070	0,083	0,092	0,111	0,148	0,185	-	-	-	-			
	200	0,028	0,035	0,042	0,049	0,056	0,066	0,074	0,089	0,118	0,148	-	-	-	-			
		200	250	300	350	400	450	500	600	800	1000	1200	1500	1800	2000			
		L (mm)																



EXT-GALV

Mounting / Fixing

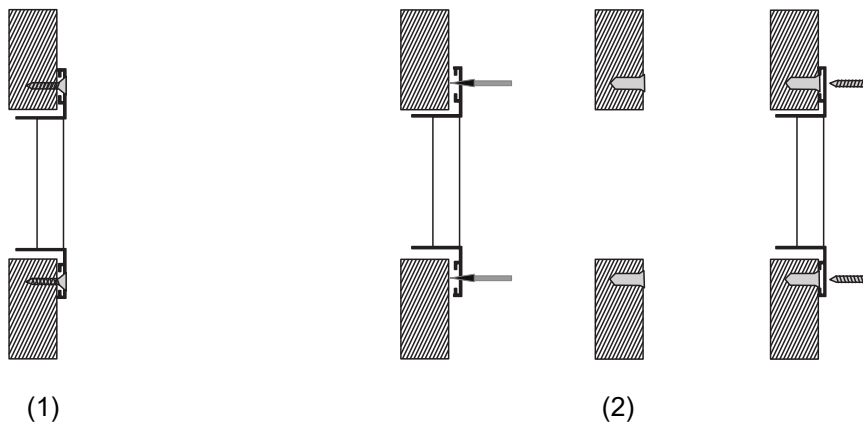
1: Measure opening hole and correct level differences and parallelism.
The maximum deviations allowed, both at parallelism and level difference, are +/- 5 mm.



2: Fixing

In metal sandwich panel **(1)**, use self drilling metal screws.

In concrete / brick structure **(2)** etc., mark the drilling hole and use appropriate plugs / anchors (not included).



Fixed curved blade grille

SC-GALV

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Specifications

Grille with single row of fixed, curved blades, inclined at 45°. Free area approx. 80%. Pitch 25 mm.

Used for exhaust or recirculation, in ventilation systems, also as masking grille for smoke dampers.

Material

Galvanised steel - DX51D Z140

Mounting / Fixing

Mounting on walls, ducts and smoke dampers.
Fixing with visible screws (countersunk hole in frame).

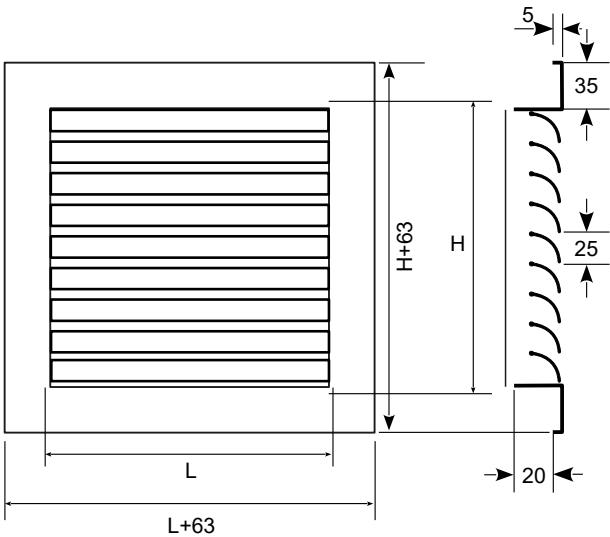
Order code: SC-GALV aaa x bbb

Product code

opening length L (mm)

opening height H (mm)

Technical data



LxH - opening hole size

Grille neck size: (L-7) x (H-7)

Available sizes

Can be manufactured with custom sizes between:
LxH 200x200 mm ~ LxH 1000x1000 mm,
with a height step of 50 mm.

TR-GALV



Specifications

Transfer grille for metallic doors, with fixed nonvision blades (form Λ).
Composed from a grille and a counterframe, for both sides of the doors.

For metallic doors with thickness between **50 ~ 65 mm**.

Used for air transfer between two rooms.

Material

Galvanised steel - DX51D Z140

Mounting / Fixing

Mounting in doors.
Fixing with visible screws (countersunk hole in frame).

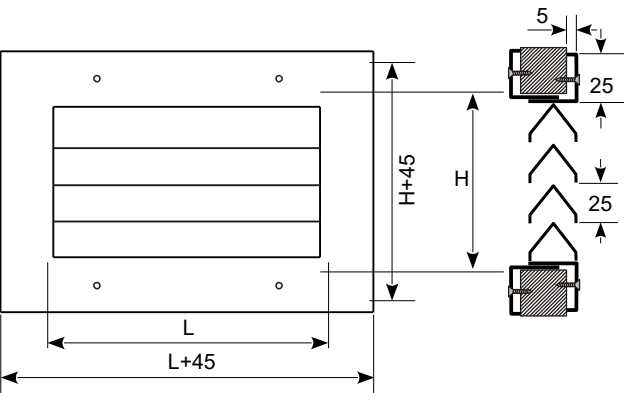
Order code: **TR-GALV** **aaa x bbb**

Product code _____

opening length L (mm) _____

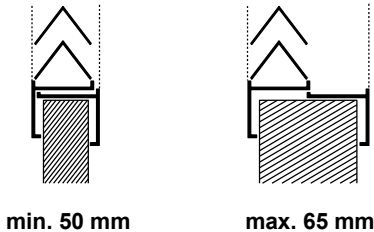
opening height H (mm) _____

Technical data



LxH - opening hole size

Door thickness (minimum ~ maximum)

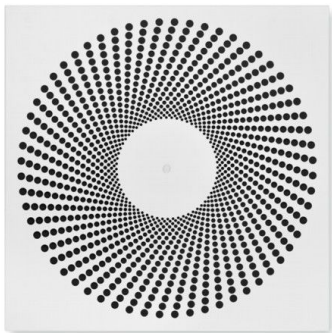
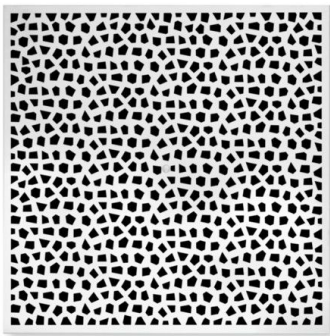
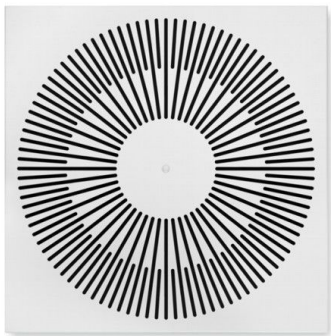
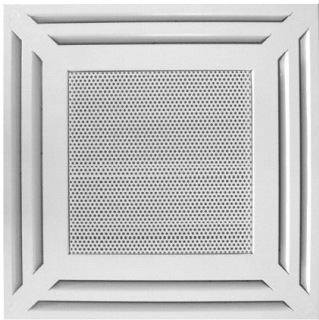
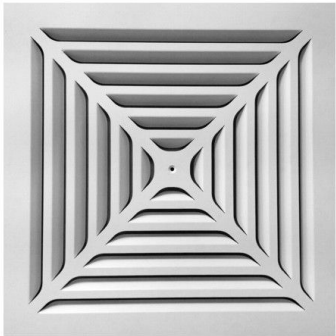


Standard sizes

LxH	Q (m³/h) @ Vef 1,25 (m/s)	Q (m³/h) @ Vef 2,5 (m/s)
300x100	70	145
400x100	95	190
500x100	120	245
600x100	150	300
300x150	115	225
400x150	150	300
500x150	175	350
600x150	255	515
400x200	195	390
500x200	250	500
600x200	305	610
500x300	390	775
600x300	415	830
600x400	695	1390

Custom sizes

Custom sizes available (under certain commercial conditions),
between:
opening length L: 300~800 mm
opening height H: 100~600 mm
with a hight step of 50 mm.



Opposed blade damper OBD

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Specifications

Opposed blade damper (register) with counterrotating blades.

Used for fine balancing and adjustment of the airflow through a ventilation grille or diffuser, thus balancing the ventilation or air conditioning system.

Cannot be used for “closing” the ventilation grilles / diffusers.

Material

Aluminium.

Polyamide gears and bushings.

Mounting

Mounting on the neck size of the grille / diffuser.

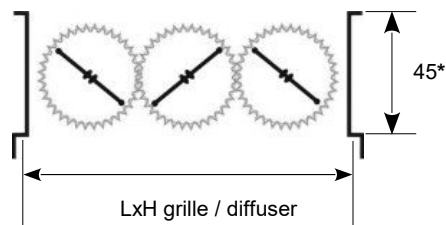
Order code: **OBD** **aaa x bbb**

Product code

grille / diffuser neck L (mm)

grille / diffuser neck H (mm)

Technical data



LxH - grille / diffuser neck size

* - to be added to grille / diffuser depth

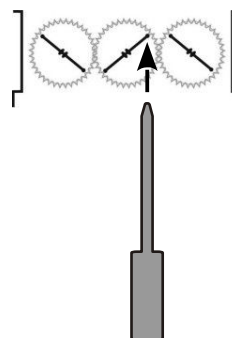
Available sizes

Can be manufactured with custom sizes between:
LxH 100x100 mm ~ 1200x600 mm

For sizes larger than LxH 1200x600 please contact technical department.

Adjusting the airflow

The damper is adjusted by pressing on the edge of a blade, in the rotating gear area, with a screwdriver.
In case that the movement is difficult, it is necessary to check if the damper is mounted correctly.



DGS



Specifications

Sliding damper (register), special designed for circular or rectangular duct grilles.

Used for fine balancing and adjustment of the airflow through a ventilation grille, thus balancing the ventilation or air conditioning system.

Cannot be used for “closing” the ventilation grilles

Material

Galvanized steel.

Mounting

Mounting on the neck size of the grille.

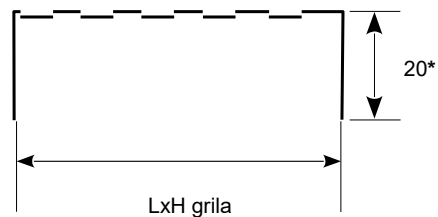
Order code: **DGS** **aaa x bbb**

Product code

grille neck size L (mm)

grille neck size H (mm)

Technical data



LxH - grille neck size

* - to be added to grille / diffuser depth

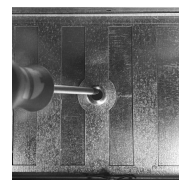
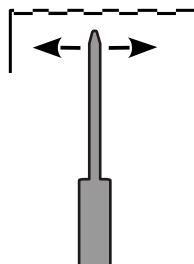
Standard sizes

LxH	LxH
225x75	225x125
325x75	325x125
425x75	425x125
525x75	525x125
625x75	625x125
825x75	825x125

There are no other sizes available.

Adjusting the airflow

The damper is adjusted by sliding the inner part, with a screwdriver, in the raised zone area.



DF



Specifications

Buttefly damper (register) for circular diffusers.

Used for fine balancing and adjustment of the airflow through circular diffusers, thus balancing the ventilation or air conditioning system.

Cannot be used for "closing" the diffusers.

Material

Galvanized steel.

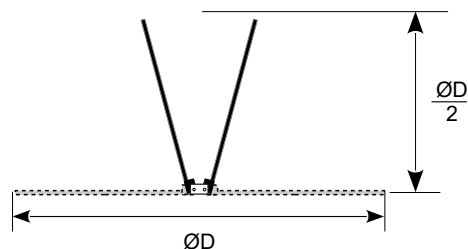
Mounting

Mounting on the central crossbar of the circular diffuser.

Order code: **DF** **ddd**

Product code _____
diffuser neck size ØD (mm) _____

Technical data



ØD - diffuser neck size

* - to be added to diffuser depth

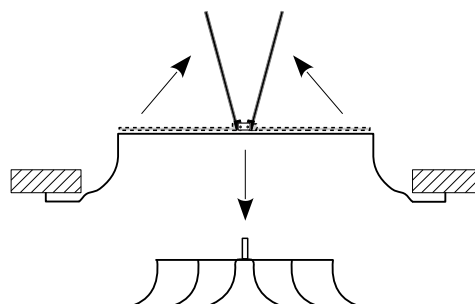
Standard sizes

ØD
150
200
250
300
350
400
450
500

There are no other sizes available.

Adjusting the airflow

For damper adjusting, unscrew the central core of the circular diffuser then adjust the damper flaps in required position.



Fixing systems for grilles / diffusers

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Torsion spring fixing system SPRING

SPRING

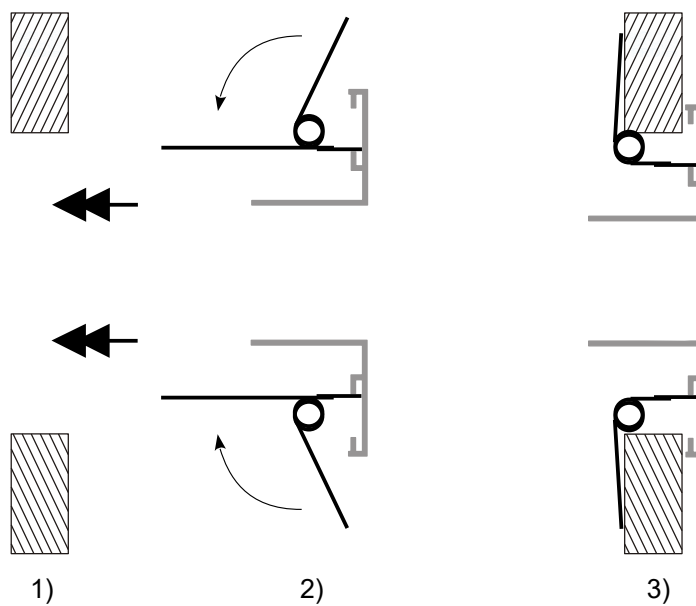
This system can be used to grilles type:

SD, DD, SC, EGC-0, EGC-45, LD, PF, EGF, GAF



This fixing system can be used for mounting on any plasterboard structure.

- 1) Lift the torsion spring and insert the grille in the opening hole.
- 2) Release the spring in order to fix the grille inside the plasterboard structure.



Fixing systems for grilles / diffusers

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FIX system with mounting frame CC

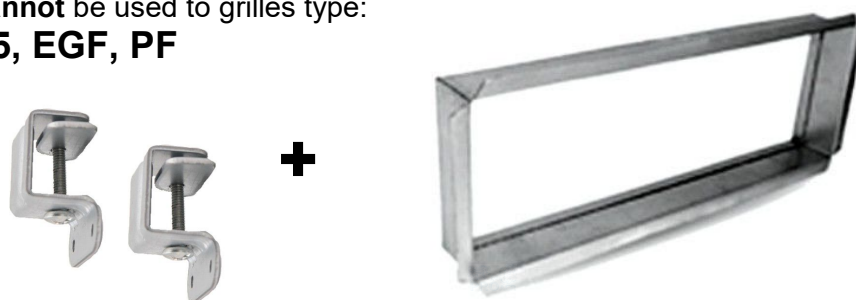
FIX+CC

This system can be used to grilles type:

SD, DD, EGC-0, LD, GAF

This system **cannot** be used to grilles type:

SC, EGC-45, EGF, PF

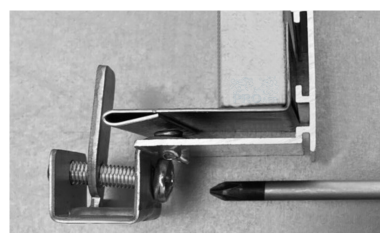
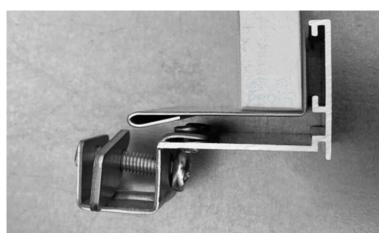
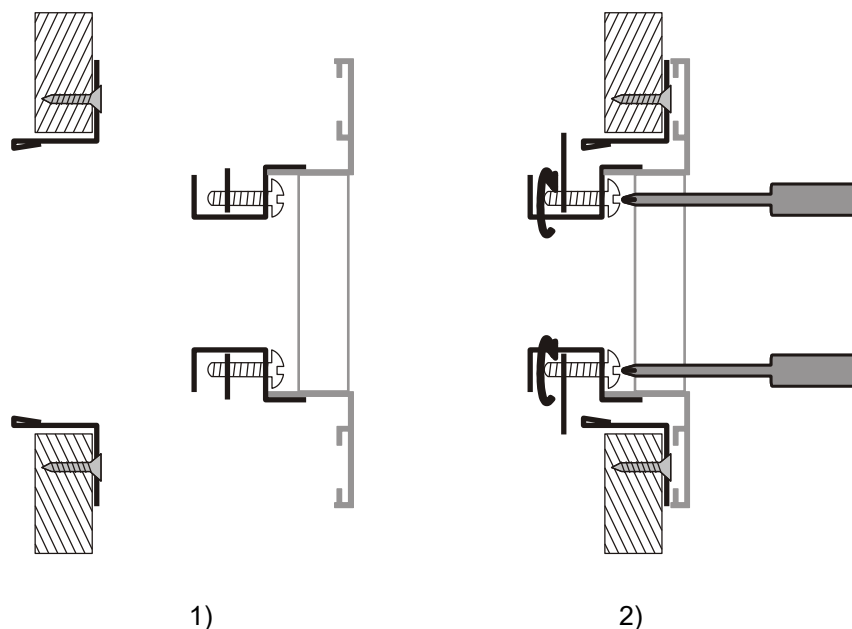


For mounting the CC frame of a grille with sizes LxH (mm), a opening hole with (L+5)x(H+5) mm is needed.

1) Fix the mounting frame CC to the structure with mechanical systems.

The manufacturer is not responsible if the installer does not choose the appropriate fixing method corresponding to the grille size and weight.

2) Insert the grille into the mounting frame and tighten the FIX system screws with a screwdriver.



Fixing systems for grilles / diffusers

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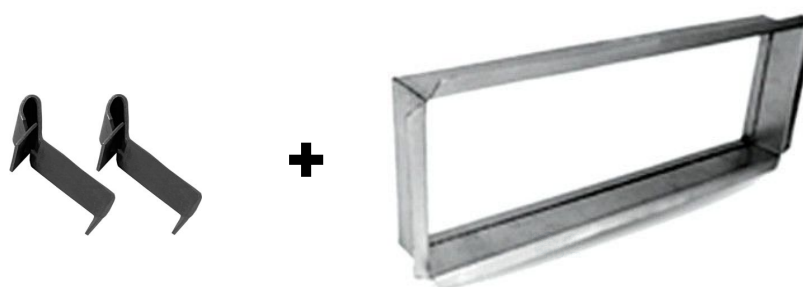
Spring CLIPS system with mounting frame CC

CLIPS+CC

This system can be used to grilles type:

SD, DD, SC, EGC-0, EGC-45, LD, PF, EGF

Note: it is **STRICTLY FORBIDDEN** to use this system on the ceiling!

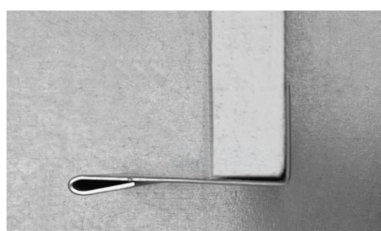
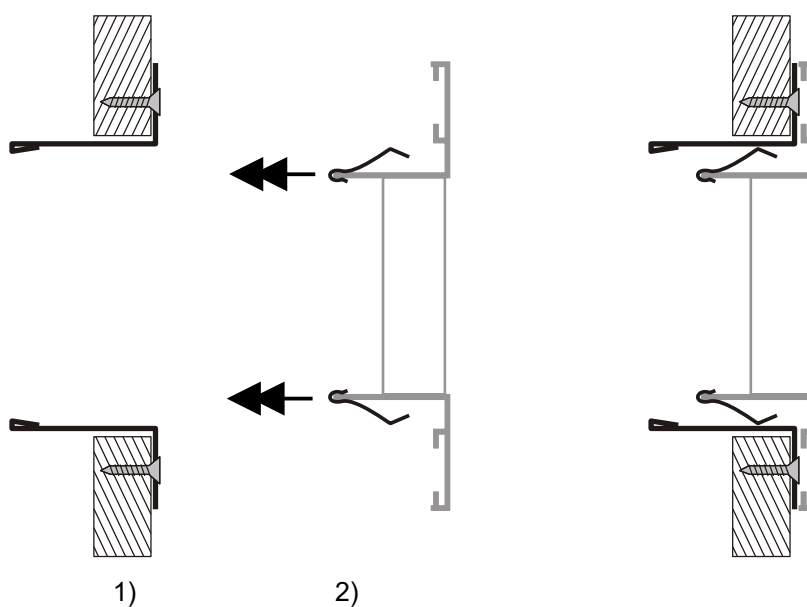


For mounting the CC frame of a grille with sizes LxH (mm), a opening hole with (L+5)x(H+5) mm is needed.

1) Fix the mounting frame CC to the structure with mechanical systems.

The manufacturer is not responsible if the installer does not choose the appropriate fixing method corresponding to the grille size and weight.

2) Insert the grille into the mounting frame.



Crossbar for slot diffusers

BF / BF-D

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Specifications

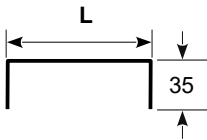
Crossbar for slot diffuser mounting.

Delivery: crossbar BF/BF-D (1mm thickness) with 2 screws 4.2x50 (countersunk head).

Order code: **BF**

Product code	
no. of slots	

Technical data



Standard sizes

BF	
SLT	L
1 F	60
2 F	105
3 F	145
4 F	190

BF-D	
SLD	L
1 F	50
2 F	95
3 F	135
4 F	180

There are no other sizes available.

Mounting

The mounting instructions are presented for each slot diffuser type in its datasheet.

Crossbar for swirl diffusers

BW

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Specifications

Crossbar for swirl diffusers mounting.

Delivery: crossbar BW, screw M6x80 (countersunk head).

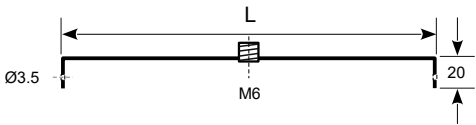
Order code: **BW**

Product code _____

size SW....*

* size of the swirl diffuser

Technical data



Dimensiuni

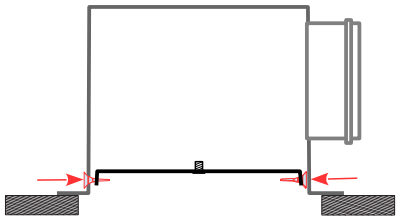
Dimensiuni SW...	L	Recommended size (inside min~max) plenum*
625	580	(580~585)x(580~585)
595	550	(550~555)x(550~555)
500	450	(450~455)x(450~455)
400	360	(360~365)x(360~365)
300	260	(260~265)x(260~265)

*depending on insulation thickness

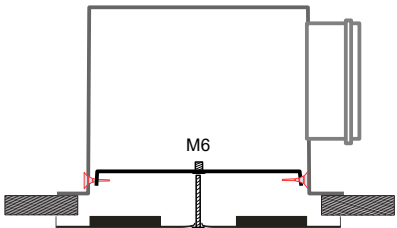
There are no other sizes available.

Montaj

NOTE: The crossbar is always supplied loose (not mounted in the plenum box). The mounting will be made by installer on site, depending on mounting conditions (depending on ceiling type).



1. Adjust an fix crossbar **BW** to plenum



2. Attach the diffuser to the crossbar.

Crossbar for circular diffusers

BR

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Specifications

Crossbar for circular diffusers mounting.

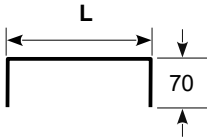
Delivery: crossbar BR, 2 screws 4.2x50 (countersunk head).

Order code: **BR**

Product code

circular diffuser size

Technical data



Standard sizes

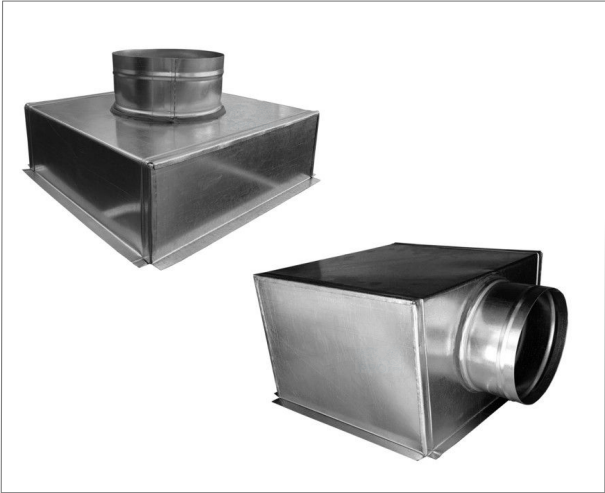
ØD	L
150	203
200	253
250	303
300	353
350	407
400	457
450	507
500	557

There are no other sizes available.

Plenum box

PL

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Specifications

Plenum box.

For connecting ventilation grilles and diffusers to the flexible ducts.

Material

Galvanized steel.

For exhaust grilles / diffusers is manufactured without thermal insulation.

For supply grilles / diffusers is manufactured with inside thermal insulation.

Insulation: synthetic rubber foam with closed cell structure (especially designed for air conditioning systems).

Order code:	PL - N	aaa x bbb	hhh	Ød	A
Product code					
N - uninsulated					
I - thermal insulation*					
size L (of grille / diffuser)					
size H (of grille / diffuser)					
plenum box height H**					
diameter Ød (flexible duct connection)					
A - top connection					
L - side connection					
not specified - without balancing damper					
DSL - balancing damper on connection***					

*6 mm synthetic rubber closed cell insulation

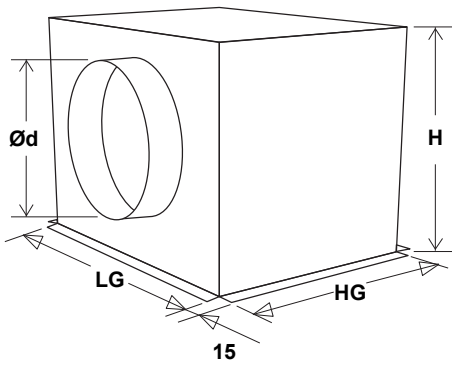
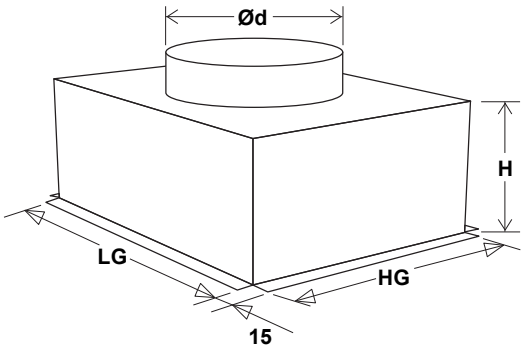
**if not specified, standard execution:

H=100 mm for PL-...A

H=Ød+50 mm for PL-...L

***for diffusers which cannot adapt opposed blade damper (ex.: SWR)

Technical data



Ød - flexible duct connection diameter (mm)

H - plenum box height (mm)

LG - size corresponding to L grille / diffuser (mm)

HG - size corresponding to H grille / diffuser (mm)

Standard execution is with external border 15 mm.

For 4-way ceiling diffusers is executed without external border.

PL

Execution variants



Standard plenum box with top connection.



Standard plenum box with side connection.



Special plenum box with expanded top side.
For grilles / diffusers with smaller size than connection size.



Special plenum box with oval connection top side.
For grilles / diffusers with smaller size than connection size,
and in available space cannot be fitted an expanded plenum box.

PSW



Specifications

Plenum box.

For connecting circular swirl diffusers to the circular ducts type Spiro or to the flexible ducts.

Material.

Galvanized steel.

For exhaust grilles / diffusers is manufactured without thermal insulation.

For supply grilles / diffusers is manufactured with inside thermal insulation.

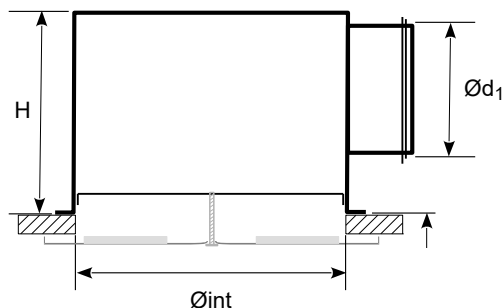
Insulation: synthetic rubber foam with closed cell structure (especially designed for air conditioning systems).

Order code: PC - aaa bbb

Product code ——— PC ——— aaa ——— bbb
 N - uninsulated
 I - thermal insulation*
 diffuser size ØD
 connection Ød1 diameter
 (if different from diameter ØD)

*6 mm synthetic rubber closed cell insulation

Technical data



$$H = \text{Ød}_1 + 100 \text{ mm}$$

Ød₁ - connection diameter to circular ducts type Spiro (mm)

For connection use crossbar **BW** (extra cost).

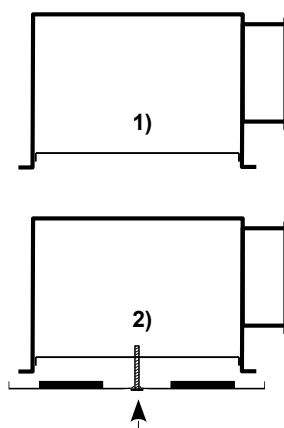
ØD - circular swirl diffuser size

Standard sizes

ØD	Ød ₁
300	260
400	360
500	450
595	560
625	580

Mounting / Fixing

- 1) Adjust an fix crossbar **BW** to plenum
- 2) Attach the diffuser to the crossbar with screw M6x80.



PC



Specifications

Plenum box.

For connecting circular diffusers to the flexible ducts.

Material.

Galvanized steel.

For exhaust grilles / diffusers is manufactured without thermal insulation.

For supply grilles / diffusers is manufactured with inside thermal insulation.

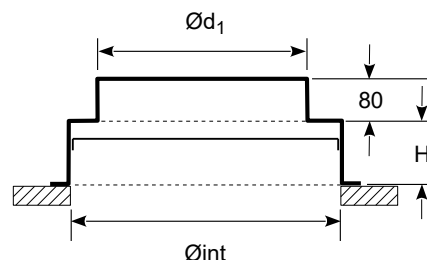
Insulation: synthetic rubber foam with closed cell structure (especially designed for air conditioning systems).

Order code: PC - aaa bbb

Product code ————
 N - uninsulated
 I - thermal insulation*
 diameter ØD diffuser ————
 connection Ød1 diameter
 (if different from diameter ØD) ————

*6 mm synthetic rubber closed cell insulation

Technical data



ØD - flexible duct connection diameter (mm)
 Crossbar **BR** delivered

Standard sizes

ØD	Ød ₁	Øint	H	H(+DF)
150	147	205	120	120
200	197	255	120	170
250	247	305	120	200
300	297	355	120	220
350	347	410	120	250
400	397	460	120	270
450	447	510	120	300
500	497	560	120	320

Mounting / Fixing

- 1) Unscrew the inner core of circular diffuser.
- 2) Fix the diffuser to the crossbar **BR** (mounted in plenum).
- 3) Screw the inner core of the circular diffuser back in place.

